```
k or r or h
g or a or v or l or f or p or m or s or t or y or w or n or g or c repeated 7
k or r or h
end of scope
                                                                                                                                                                Selected search type is key against sequence data banks or files. Selected scope is Sequence.
Selected sequence key from "new.key":
seq28 (AA) ID seq28 AA preliminary pattern
1 followed by
                                                        Quest - Quick User-directed Expression Search Tool
Release 5.4
                                                                                                                               -- Outline of search "seq28-pen"
```

-- Output Parameters --

Data bank : Pending_AA , all entries

Selected data banks and files:

File Options:
Indirect file
Sequence or key file
List of hits
Hit display
Name and annotations Exact No Yes Yes Yes Format Options:
Nucleic acid code matching E:
Find non-matching hits only Ni
Report key used
Note position of hit
Display full annotations Y:
Sequence context

No No No Yes Yes

-- Run Parameters --

Batch now No Run mode Time to start comparison Notify at end of run

No hits found.

-- Search Statistics --

Total Elapsed 00:26:20.00 5845876 0 0 CPU 00:25:28.05 Number of sequences searched: Number of sequence hits: Number of separate matches: Number of sequence hits saved: Times:

seq28-iss.res

Total Elapsed 00:02:12.00

-- Search Statistics --

No hits found.

CPU 00:01:39.10

Times:

Number of sequences searched: Number of sequence hits: Number of separate matches: Number of sequence hits saved:

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! hydroxyproline-3-bradykinin - frog (Heleoph
                                                                                              ! Thr-6 bradykinin - scoliid wasp (Colpa inte
                                                                                                                                                                                                                                           ! bradykinin-like peptide - garden dagger was
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ! bradykinin-like peptide - slider turtle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ! bradykinin - horn fly (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,F,P,S) \; \{7\} \; (R) \\ RPPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,F,P,S) \; \{7\} \; (R) \\ RPPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,F,P,T) \; \{7\} \; (R) \\ RPPGFTPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,L,F,P,T) \; \{7\} \; (R) \\ RPDGFTPLR
                                                                                                                                                                                                                                                                              < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,F,P,T) \; \{7\} \; (R) \\ RPDGFTPFR
                                                                                                                                                                                                                                                                                                                                                                                                                       < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,F,P,S) \; \{7\} \; (R) \\ RPPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                     ! bradykinin - common frog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ornitho-kinin - chicken
                                   ! FINDPATTERNS on pir:* allowing 0 mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ck: 3472 len: 9
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                                                                                                      A61057
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Databases searched: NBRF, Release 76.1, Released on 12May2003, Formatted on 10Jun2003

7 96,168,682 283,308 50.72

Total finds:
Total length:
Total sequences:
CPU time:

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!!SEQUENCE_LIST 1.0
! FINDPATTERNS on pir:* allowing 0 mismatches
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! 1 < (K,	$1 < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \big\{ 7,7 \big\} \; (K,R,H) > 1 \; (K,R,H) \; (K$	г, в, в	, α, π,	r, y, w, n	1, Q, C) {7,	7} (K,	.R, H) >
PIR2:A61057	ck:	ck: 3478 len: 9	len:	თ	finds: 1	근	! Thr-6 bradykinin - scoliid was
PIR2:A26744	gk:	ck: 3478	len: 9	6	finds: 1	1	l bradykinin-like peptide - gard
PIR2:A61363	çk:	ck: 3472	len: 9	6	finds: 1	н	: bradykinin - common frog
PIR2:A60579	ck:	ck: 3478	len: 9	σ	finds: 1	 1	! bradykinin-like peptide - slid
PIR2:B60246	ck:	ck: 3526	len: 9	σ	finds: 1	н	ornitho-kinin - chicken
PIR2:S65433	ck:	ck: 3472	len: 9	Q	finds: 1	н	bradykinin - horn fly (fragmen
PIR2:A43065	ck:	ck: 3472	len: 9	ο/	finds: 1	н	! hydroxyproline-3-bradykinin -
\\End of list							

Databases searched: NBRF, Release 76.1, Released on 12May2003, Formatted on 10Jun2003

7 96,168,682 283,308 01:27.10 Total finds: Total length: Total sequences: CPU time:

```
Bur. J. Biochem. 237, 414-423, 1996
A;Title: Clouhng and characterisation of angiotensin-converting enzyme from the
dipteran species, Haematobia irritans exigua, and its expression in the
maturing male reproductive system.
A;Reference number: S65431; MUID:96215437; PMID:8647080
C;Comment: This peptide increases aortic blood flow but, unlike bradykinin in mammalian systems, does not lower blood pressure in the turtle. C;Superfamily: unassigned animal peptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C, Accession: B60246 R. Rorita, T.; Tanaka, K.; Iwanaga, S. R, Kimura, M.; Sueyoshi, T.; Morita, T.; Tanaka, K.; Iwanaga, S. Adv. Exp. Med. Biol. 2474, 359-367, 1989
A, Title: Ornitho-kininogen and ornitho-kinin: isolation, characterization and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PijA43065 - hydroxyproline-3-bradykinin - frog (Heleophryne purcelli)
C;Species: Heleophryne purcelli
C;Species: Heleophryne purcelli
C;Bate: 07-0ct-1994 #sequence_revision 07-0ct-1994 #text_change 07-May-1999
C;Accession: A43065
R;Nakajima, T.; Yasuhara, T.; Erspamer, G.F.; Visser, J.
Experientia 35, 1133, 1979
A;Title: Occurrence of Hyp(3)-bradykinin in methanol extracts of the skin of the South African leptodactylid frog Heleophryne purcelli.
A;Reference number: A43065; MUID:80024576; PMID:488255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          !!AA_SEQUENCE 1.0
F1;555433 - bradykinin - horn fly (fragment)
C;Species: Haematobia irritans (horn fly)
C;Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change 13-Mar-1997
C;Accession: S65433
R;Wijffels, G; Fitzgerald, C.; Gough, J.; Riding, G.; Elvin, C.; Kemp, D.;
Willadsen, P.
                                                                                                                                                                                                                                                                                                                                                                                   P1,B60246 - ornitho-kinin - chicken
C,Species: Gallus gallus (chicken)
C,Date: 11-Dec-1992 #sequence_revision 11-Dec-1992 #text_change 18-Aug-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          B60246 Length: 9 December 11, 2003 07:09 Type: P Check: 3526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A43065 Length: 9 December 11, 2003 07:09 Type: P Check: 3472
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                                                                                                                                                                                           December 11, 2003 07:09 Type: P Check: 3478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-9 <WIJ>
A;Note: the source is designated as Haematobia irritans exigua
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Reference number: A60246; MUID: 90102072; PMID: 2603803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Accession: B60246
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-9 <KIM>
C;Superfamily: unassigned animal peptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      chemical structure.
                                                                                                                                                                                               A60579 Length: 9
                                                                                                                                                                                                                                                                           RPPGFTPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RPPGFTPLR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RPPGFSPFR
                                                                                                                   C; Keywords: plasma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    !! AA SEOUENCE 1.0
                                                                                                                                                                                                                                                                                                                                               !!AA SEQUENCE 1.0
```

PIJAA_SEQUENCE 1.0
PIJA61363 - bradykinin - common frog
CjSpecies: Rana temporaria (common frog)
CjSpecies: Rana temporaria (common frog)
CjSpecies: Rana temporaria (common frog)
CjAccession: A61363
RjAnastasi, A.; Erspamer, V.; Bertaccini, G.
Comp. Biochem. Physiol. A 14, 43-52, 1965
A;fitle: Occurrence of bradykinin in the skin of Rana temporaria.
A;Reference number: A61363

A26744 Length: 9 December 11, 2003 07:09 Type: P Check: 3478

RPPGFTPFR

C; Superfamily: unassigned animal peptides

A;Molecule type: protein A;Residues: 1-9 <YAS>

A; Accession: A26744

1:AA_SEQUENCE 1.0
P1;A26744 - bradykinin-like peptide - garden dagger wasp
N;Alternate names: Thr-6-bradykinin
C;Species: Megascolia flavifrons (garden dagger wasp)
C;Date: 08-Mar-1989 #sequence_revision 08-Mar-1989 #text_change 18-Aug-2000
C;Accession A26744 #sequence_revision 08-Mar-1989 #text_change 18-Aug-2000
R;Yasubara, T.; Mantel, P.; Nakajima, T.; Piek, T.
Toxicon 25, 527-535, 1987
A;Title: Two kinins isolated from an extract of the venom reservoirs of the solitary wasp Megascolia flavifrons.
A;Reference number: A94322; MUID:87293024; PMID:3617088

A61057 Length: 9 December 11, 2003 07:09 Type: P Check: 3478

1 RPPGFTPFR

A;Molecule type: protein A;Residues: 1-9 <PIE. C;Superfamily: unassigned animal peptides C;Keywords: bradykinin; presynaptic neurotoxin; venom

A;Accession: A61057

P1,786059 - bradykinin-like peptide - slider turtle
C;Species: Pseudemys scripta (slider)
C;Accession: A60579
R;Conlon, J.M.; Hicks, J.W.; Smith, D.D.
Endocrinology 126, 985-91, 1990
A;Title: Isolation and biological activity of a novel kinin
([Thr(6)]bradykinin) from the turtle, Pseudemys scripta.
A;Reference number: A60579; MUID:90126625; PMID:2298179
A;Molecule type: protein
A;Residues: 1-9 <CON>

A61363 Length: 9 December 11, 2003 07:09 Type: P Check: 3472

1 RPPGFSPFR

SEQUENCE 1.0

A,Status: preliminary
A,Molecule type: protein
A;Residues: 1-9 <ANA>
C;Superfamily: unassigned animal peptides
C;Keywords: skin

A, Accession: A61363

```
! P83058 bombina variegata (yellow-bellied to
                                                                                                                                                                                                                                                                                    ! Q9prj4 lepisosteus osseus (long-nosed gar),
                                                                                                                                                                                                                                                                                                                                                                                                                                                Databases searched:
SWISS-PROT, Release 41.1, Released on 6Jun2003, Formatted on 9Jun2003
SPTREMBL, Release 23.0, Released on 4Mar2003, Formatted on 7Mar2003
                                                                                                                                                      < (K,R,H) \ (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \ \{7,7\} \ (K,R,H) > \\ (R) \ (G,F,P,T) \ \{7\} \ (R) \\ RPPGFTPFR
                                                                                                                                                                                                                                                                                                                               <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) >
(R) (G,F,P,S,W) {7} (R)
RPPGWSPR
                                          1 < (K,R,H) \ (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \ \{7,7\} \ (K,R,H) >
! FINDPATTERNS on swp:* allowing 0 mismatches
                                                                                                                 KNL3_BOMVA ck: 3478 len: 9
                                                                                                                                                                                                                                                                                    Q9PRJ4 ck: 3557 len: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2
305,079,309
958,388
03:29.37
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Total length:
Total sequences:
CPU time:
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! P83058 bombina variegata (yell
                                                                                                                                  ! Q9prj4 lepisosteus osseus (lon
                                                                                                                                                                                                                    Databases searched:
SWISS-PROT, Release 41.1, Released on 6Jun2003, Formatted on 9Jun2003
SPTREMBL, Release 23.0, Released on 4Mar2003, Formatted on 7Mar2003
                                           1 < (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) >
                                                                                                   finds: 1
                                                                                                                                       finds: 1
!!SEQUENCE_LIST 1.0 
! FINDPATTERNS on swp:* allowing 0 mismatches
                                                                                                     ck: 3478 len: 9
                                                                                                                                         ck: 3557 len: 9
                                                                                                                                                                                                                                                                                           2
305,079,309
958,388
05:05.78
                                                                                                                                                                                                                                                                                           Total finds:
Total length:
Total sequences:
CPU time:
                                                                                                                                                                               \\End of list
                                                                                                             SW: KNL3_BOMVA
                                                                                                                                           SP_OV:Q9PRJ4
```

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SEQUENCE.
MEDLINE=95380361; PubMed=7651903;
Conlon J.M., Platzack B., Marra L.E., Youson J.H., Olson K.R.;
"Isolation and biological activity of [Trp5]bradykinin from the plasma of the phylogenetically ancient fish, the bowfin and the longnosed
                                                                           28-FEB-2003 (Rel. 41, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
[Thr6] bradykinin.
Bombina variegata (Yellow-bellied toad).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.
                                                                                                                                                                                                                                                  TISSUE=Skin secretion;
Chen T.B., Orr D.F., Bjourson A.J., McClean S., Rao P.F., Shaw C.;
"Cloning and post-translational processing of frog skin kininogens.";
Submitted (JUL-2001) to he SWISS-PROT data bank.
-!- FUNCTION: [Thrs]bradykinin produces in vitro relaxation of rat
arterial smooth muscle and constriction of intestinal smooth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bradykinin.
Lepisosteus osseus (Long-nosed gar), and
Amia calva (Bowfin).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Semionotiformes; Lepisosteidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BOMVA Length: 9 December 11, 2003 07:10 Type: P Check: 3478
                                                                                                                                                                                                                   [1]
SEQUENCE, SUBCELLULAR LOCATION, AND TISSUE SPECIFICITY.
                                                                                                                                                                                                                                                                                                                                                                               -:- SUBCELLULAR LOCATION: Secreted.
-:- TISSUE SPECIFICITY: Skin.
-:- SIMILARITY: BELOGG TO THE BRADYKININ FAMILY.
Amphibian defense peptide; Vasodilator; Bradykinin.
SEQUENCE 9 AA; 1074 NW; 3393D771A9C86777 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Peptides 16:485-489(1995).
SEQUENCE 9 AA; 1099 MW; 3393D775A3786777 CRC64;
                                                         28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
                       9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
                         STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lepisosteus.
NCBI_TaxID=34771, 7924;
                                                                                                                                                                                             NCBI_TaxID=8348;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 RPPGFTPFR
SEQUENCE 1.0
KNL3 BOMVA
P83058;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ! AA SEQUENCE 1.0
                                                                                                                                                                                                                                                                                                                                                                       muscle.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q9PRJ4;
       AA!
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Q9PRJ4 Length: 9 December 11, 2003 07:10 Type: P Check: 3557

1 RPPGWSPFR

07:56:00 2003

Thu Dec 11

! FINDPA	FINDPATTERNS on gen	geneseqp:* allowing 0 mismatches		
	1 < (K, R, H) (G	<(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)>	AAR36637 ck: 3	3208 len: 9 ! Aar36637 Group I synthetic pe
	AAP40762		< (K, F	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> HGGGGGGK</pre>
н	ਜ	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (R) (G, F, P, S) {7} (R) RPPGFSPFR</pre>	41460 ck:	3546 len: 9 Aar41460 Antigenic peptide box
	AAP50468	ck: 3472 len: 9 ! Aap50468 Sequence of cyclopropyl peptide wi	< (K, F	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) ></pre>
H	;;	< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (R) (G, P, P, S) {7} (R) RPPGFSPFR	38133	3378 len: 9 ! Aay38133 Hepatitis B virus-de
	. AAP91673	ck: 3337 len: 9 ! Aap91673 New bradykinin analogue with D-Arg	< (K, F	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> (K) (G,V,L,F,C) {7} (R) KVFVLGGCR</pre>
.	1:	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> (R) (G,A,F,P,S) {7} (R) RPPGASFAR</pre>	AAY38136 ck: 3	3712 len: 9 ! Aay38136 Hepatitis B virus-de
	AAR12821	lated bradykin	<(K,F	<pre><(K,R,H) (G,A,VL,F,P,M,S,T,Y,W,N,Q,C) (7,7) (K,R,H)> (R) (V,L,P,S,T,Q) {7} (R)</pre>
-1	ij	<pre><(K,K,H)(G,A,V,L,F,E,E,E,E,E)(T)(T)(T)(T)(T)(T)(T)(T)(T)(T)(T)(T)(T)</pre>	AAY38138 ck: 3696	3696 len: 9 ! Aay38138 Hepatitis B virus-de
٠	AAR20132	ck: 3482 len: 9 ! Aar20132 SEQ ID No. 8 encoded by fragment c	. < (K,F	$< (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (V,L,S,T,Q) \; \{7\} \; (R) \\ RLVLQTSTR$
	:	(K) (G, L, P, S) {7} (K)	AAY38278 ck: 3	3252 len: 9 Aay38278 HPV-derived HLA-bind
г	AAR24411	ck: 3472 len: 9 Aar24411 CPase B-like enzyme substrate 2. 1 < (K.R.H) (G.A.V.L.F.P.M.S.T.Y.W.N.Q.C) (7.7) (K.R.H) >	< (K, I	$< (K,R,H) \ (G,A,V,L,F,P,M,S,T,Y,M,N,Q,C) \ \{7,7\} \ (K,R,H) > \\ (H) \ (L,M,T,C) \ \{7\} \ (K) \\ HTMLCMCCK$
	1;		AAR47322 CK:	3252 len: 9 Aar47322 HLA-All HPV18.E7 ant
t	AAR28416	ck: 3654 len: 9 ! Aar28416 Blood-brain barrier permeabiliser < (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (R) (G,L,P,S,Y) {7} (R)	< (K,1	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> (H) (L,M,T,C) {7} (K) HIMLCMCCK</pre>
	1:	RPPGLSPYR	AAR55743 ck:	3402 len: 9 ! Aar55743 Protein-kinase inhib
	AAR28419	υv	< (K, ¹ 1:	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> (R) (G,F,P,S) {7} (R) RPPGFSFFR</pre>
	 :-	(R) (G, L, P, S) { 7} (R) RPPGLSPLR	AAR87095 ck:	3472 len: 9 ! Aar87095 Bradykinin, forms pa
स	AAR36629	Ck: 3216 len: 9 ! Aar36629 Group I synthetic peptide 161. 9/1 < (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (H) (G,C) {7} (K)		(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (R) (G,F,P,S) {7} (R) RPPGFSPFR
	L: AAR36633	ck: 3212 len: 9	AAM45443 CK: (K,)	5
п	1;	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > HGGGCGGGK</pre>	1: AAW45444 ck:	RPPGFGFFR, 3410 len: 9 Aaw45444 Bradykinin analogue

! Aay38133 Hepatitis B virus-derived HLA-bin ! Aay38136 Hepatitis B virus-derived HLA-bink ! Aay38138 Hepatitis B virus-derived HLA-bin of gene tra ! Aaw45443 Bradykinin analogue containing N-! Aar41460 Antigenic peptide bound by MHC cl: ! Aar36637 Group I synthetic peptide 173. 9/ ! Aar47322 HLA-All HPV18.E7 antigen peptide ! Aay38278 HPV-derived HLA-binding peptide. ! Aar55743 Protein-kinase inhibitor. 3/2003 ! Aar87095 Bradykinin, forms part <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)>
(H) (L,M,T,C) {7} (K)
HTMLCMCCK <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)>
(R) (G,F,P,S) {7} (R)
RPPGFSFFR $< (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (H) \; (G,C) \; \{7\} \; (K) \\ HGGGGGGK$ $< (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,V,L,Y,Q) \; \{7\} \; (K) \\ RGYVYQGLK$ $< (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (K) \; (G,V,L,F,C) \; \{7\} \; (R) \\ KVFVLGGCR \; \label{eq:controller}$ <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) (7,7) (K,R,H) >
(R) (Y,L,P,S,T,Q) (7) (R)
RLVPQTSTR <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)>
(R) (V,L,S,T,Q) {7} (R)
RLVLQTSTR ck: 3402 len: 9 ck: 3712 len: 9 ck: 3696 len: 9 ck: 3252 len: 9 ck: 3472 len: 9 ck: 3378 len: 9 len: 9 len: 9 ck: 3208 len: 9 ck: 3546 len: 9 ck: 3252 ck: 3330

! Aaw45444 Bradykinin analogue containing N-]

 H	<pre><(K, K, H) (G, A, V, L, F, F, P, E) (G, F, P, S) {7} (R, K, H) ></pre>	AAW79626 C	ck: 3435 len: 9
AAW45445	ck: 3338 len: 9 Aaw45445 Bradykinin analogue containing N-t		< (K, R, H) (G, A, V, L (
	,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (R) (G,F,P) {7} (R) RPGFGFGR	1: AAW54325 Cl	ck: 3472 len:
AAW45446	ck: 3337 len: 9 ! Aaw45446 Bradykinin analogue containing N-t		< (K, R, H) (G, A, V, L
સ	,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} ((R) (G,F,P) {7} (R) RPPGFGGFR	1: AAW39724 C)	ck: 3657 len:
AAW45447	QJ F	v .:	< (K, R, H) (G, A, V, L (H
:	<pre><(K, K, H) (G, A, V, L, F, P, M, D, T, T, M, N, C, T, T, T, M, D, T, T, M, D, T, T, M, D, T, T, M, D, T, T, T, M, D, T, T,</pre>	AAW45657 ci	ck: 3378 len:
AAW45438	ck: 3400 len: 9 < (K,R,H) (G,A,V,L,	1:	< (K, R, H) (G, A, V, I (
 H	(R) (G, F, P) (7) (R) RPPGRGPFR	AAW23801 C	ck: 3548 len:
AAW45439	ck: 3480 len: 9 <(K,R,H) (G,A,V,L,F,	, 1:	<(K,R,H)(G,A,V,I (F
н ::	(R) (G, F, P, S) {7} (R) RPPGFSPGR	AAW04607 C	ck: 3472 len:
AAW45440	Ck: 3408 len: 9 Aaw45440 Bradykinin analogue containing N-b	1:	<(K, R, H) (G, A, V, I
1:	(G, F, P) (T) (R) (R) (R) (R) (R) (R) (R) (R) (R) (R	AAW77426 C	ck: 3472 len:
AAW00686	ck: 3657 len: 9		, к, н) (С
;;	HLFGYSWYK	AAW81261 C	len
AAR88475	ck: 3704 len: 9 ! Aar88475 Internal tryptic peptide from Tre6 < (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (R) (Y,S,T,N) {7} (R) (Y,S,T,N) {7} (R)	1: AMMA 1:	<(K, K, H) (G, A, V, J (R) (R) (R)
AAY22658	ck: 3522 len: 9 ! Aay22658 Peptide used to create bradykinin		
1;	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7, 7} (K, R, H) ></pre>	W87445	ck: 3476 len:
AAY22679	ck: 3472 len: 9 ! Aay22679 Peptide used to create bradykinin < (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) >	,	< (K, R, H) (G, A, V,
	(K) (G, E, F, D) (') (K)		

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! Aaw81318 Human iNOS peptide fragment for e
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                                                                                                                                                                                                                                                                                                                                                      ! Aaw39724 Human carcina-embryonic antigen (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ! Aaw45657 HBV ade X 1548 peptide with bindi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ! Aaw23801 VEGF/VPF antigen sequence KPSCVPL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ! Aaw04607 Bradykinin fragment for mass spec
                                                      ! Aaw79626 Truncated GHRH analogue. 12/1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ! Aaw87445 Peptide determined by the method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ! Aaw77426 Bradykinin sequence. 5/1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ', L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (R) (G, F, P, S) {7} (R) RPPFGPSFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ', L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (R, (G, F, P, S) {7} (R) RPPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ', L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (G, V, L, P, M, S, T) {7} (R) RMILVPGSR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R) (G,V,L,F,M,S,T) {7} (R) RTLVFGSR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (K) (G,V,L,F,C) {7} (R) (KYFVLGGCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (K, K, E, P, M, S, T, Y, W, N, Q, C) (7, 7) (K, R, H) > (K) (V, L, P, M, S, C) (7) (R) (X) (X) (X) (X)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (R) (G, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (R) (G, F, P, S) {7} (R) RPPGFSPPR
                                                                                             L, F, P, M, S, T, Y, W, N, Q, C) {7, 7} (K, R, H) > (K), (A, V, L, S, Q) {7} (R) 
KVLAQLSAR
                                                                                                                                                                                                                                           (R) (G, F, P, S) {7} (K, R, H) > (R) (G, F, P, S) {7} (R)
                                                                                                                                                                                                                                                                                                                                                                                         L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (G,L,F,S,Y,W) {7} (K) HLFGYSWYK
                                                                                                                                                                                                        ! Aaw54325 Bradykinin. 7/1998
RPPGFSPFR
                                                                                                                                                                                                             ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ወ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
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of

by the method c 1 c 2 glycoprotein N 1	AAW87446	ck: 3498 len: 9 ! Aaw87446 Peptide determined by the method q	
CK. 3495 lem: 9 i Aaw@7447 Peptide determined by the method o (K.R.H) (G.A.V.L.P.P.M.S.T.Y.W.N.Q.C) (7.7) (K.R.H) > (CK.H.H) (G.A.V.L.P.P.M.S.T.Y.W.N.Q.C) (7.7) (K.R.H) > (CK.H		(G, A, V, L, F, E, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) (R) (G, P, P, S) {7} (R) RPPGFFPSR	I. AAWB0241
<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, M, N, Q, C) {7,7} (K, R, H) > ck; 3448 len: 9</pre>	AAW87447	3495 len: 9 ! Aaw87447 Peptide determined by the	
<pre>ck: 3448 len: 9</pre>	;;	R, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) R) (G, F, P, S) {7} (R) RPPGFFSPR	1: AAW8024
ck: 3495 len: 9 1 Aaw87449 Peptide determined by the method c	AAW87448	3448 len: 9 Aaw87448 Peptide determined by the	
ck: 3495 len: 9 ! Aaw87449 Peptide determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3452 len: 9 ! Aaw87450 Peptide determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3493 len: 9 ! Aaw87451 Peptide determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3493 len: 9 ! Aaw87451 Peptide determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3411 len: 9 ! Aaw87452 Peptide determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3475 len: 9 ! Aaw87452 Peptide determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3475 len: 9 ! Aaw87454 Peptide determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3472 len: 9 ! Aaw87454 Peptide determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3472 len: 9 ! Aaw87454 Peptide Z determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3472 len: 9 ! Aaw87376 Peptide Z determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3472 len: 9 ! Aaw87376 Peptide Z determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3472 len: 9 ! Aaw87376 Peptide Z determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (K.R.H) ck: 3472 len: 9 ! Aaw87376 Peptide Z determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7) (7,7) (K.R.H) ck: 3472 len: 9 ! Aaw87376 Peptide Z determined by the method c (K.R.H) (G,A,V,L,P.P.M.S,T.Y.W.M.Q.C) (7,7)	1:	F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) R) (G, F, P, S) {7} (R) RPPSFGPFR	1: AAW7462
<pre>c(K, R, H) (G, A, V, L, F, P, M, S, T, Y, M, N, Q, C) {7,7} (K, R, H) ck: 3452 len: 9</pre>	AAW87449	3495 len: 9 ! Aaw87449 Peptide determined by the	r
ck: 3452 len: 9 Aaw87450 Peptide determined by the method c (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > RPPGPSFFR RPPGPSFFR RPPGSFFR RPPGFFR RP,M,S,T,Y,W,M,Q,C) {7,7} (K,R,H) > Aaw87452 Peptide determined by the method c (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,M,Q,C) {7,7} (K,R,H) > RPPGFFFR RAW87453 Peptide determined by the method c (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,M,Q,C) {7,7} (K,R,H) > RAW87454 Peptide determined by the method c (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,M,Q,C) {7,7} (K,R,H) > RAW87454 Peptide determined by the method c (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,M,Q,C) {7,7} (K,R,H) > RAW87376 Peptide Z determined by the method c (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,M,Q,C) {7,7} (K,R,H) > RPPGFFFR R	1:	<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) (7,7) (K,R,H)> (R) (G,F,P,S) {7} (R) RPFGPPSFR	1: AAW7980
<pre><(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}{(K,R,H)} S1</pre>	AAW87450	3452 len: 9 ! Aaw87450 Peptide determined by the method	
51 ck: 3493 len: 9 ! Aaw87451 Peptide determined by the method c (K,R,H) (G,A,V,L,F,P,M,S,T,Y,M,N,Q,C) {7,7} (K,R,H) >	 	(R) (G,F,P,S) {7, T,W,N,Q,C) {7,7} (K,R,H) (R) (G,F,P,S) {7} (R) RPPGPSFFR	1: AAW4243
<pre> <(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> \text{RFPEGSPER} \text{RFPEGSPER} <(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C)\{7,7\}(K,R,H)> <(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C)\{7,7\}(K,R,H)> \text{RFGPESPER} \text{RFGPESPER} \text{RFGPESPER} \text{RFGPESPER} \text{RFGPESPER} \text{RFGPESPER} \text{RFGFESPER} \text{RFPGFPSER} \text{RFPGGFSER} \text{RFRGGFSERR} \text{RFPGGFSERR} \text{RFRGGFSERR} \</pre>	AAW87451	3493 len: 9 ! Aaw87451 Peptide determined by the	٠
52 CK: 3511 len: 9 ! Aaw87452 Peptide determined by the method c (K,R,H) (G,A,V,L,F,P,M,S,T,Y,M,N,Q,C) {7,7} (K,R,H) 1	** *1	F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) R) (G, F, P, S) {7} (R) RPPGSPFR	AAW5338
<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) ></pre>	AAW87452	3511 len: 9 ! Aaw87452 Peptide determined by the	•
<pre>ck: 3475 len: 9 ! Aaw87453 Peptide determined by the method c</pre>	: :	(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) (R) (G,F,P,S) {7} (R) REQPESPER	AAY5023
<pre><(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)></pre>	AAW87453	3475 len: 9 ! Aaw87453 Peptide determined by the method	·
<pre>ck: 3472 len: 9</pre>	 Fi	F.P.M.S.T.Y.W.N.Q.C) {7,7} (K,R,H) R) (G,F,P,S) {7} (R) RPPGFPSFR	1: AAY4570
<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) ></pre>	AAW87454	len: 9 ! Aaw87454 Peptide determined by the method	
ck: 3472 len: 9 ! Aaw87376 Peptide Z determined by the method (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) \\ (R,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) \\ (R,R,H) \\ (1:	<(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> (R,(G,F,P,S){7}(R) RPPGFSPFR	L: AAY4570
<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) ></pre>	AAW87376	len: 9 ! Aaw87376 Peptide Z determined by the	
1 ck: 3551 len: 9 Aaw72520 Dengue virus type-2 glycoprotein N c(R R H)(G A V T. F D M S. T. V W N O. C)(7, 7)(K. R. H)>	 ed	P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) (G,F,P,S) {7} (R) RPPGFSPFR	1: AAY4570
(K R H) (G A V I, R D M S T V W N O C) (7.7) (K R H)>	るな様でのようの	len. 9 Jaw72520 Denome virus tyme-2 glycoprotein	1
5 (N. N. 117 . N. 117	Political income	(G.A.V.L.F.P.M.S.T.Y.W.N.O.C) {7.7} (K.R.H.)>	1:

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! Aay45701 Immunogenic peptide having a humar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ! Aaw53382 Tumour metastasis inhibitor peptid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 Aay45704 Immunogenic peptide having a humar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ! Aay45706 Immunogenic peptide having a humar
                                                                                                                                                                                                                             ! Aaw80245 Active site sequence of the beta-1
                                                                                                                                                                                                                                                                                                                                                                       ! Aaw74626 Amino acid sequence of the VEGF/VE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ! Aaw79806 Bradykinin peptide sequence. 12/15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ! Aaw42433 Human vascular permeability factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ! Aay50235 Neutrophil-activating pancreatic
                                                                             ! Aaw80241 Wild type active site sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       < (K,R,H) \; \{G,A,V,L,F,P,M,S,T,Y,W,N,Q,C\} \; \{7,7\} \; (K,R,H) > \\ (R) \; \{V,L,S,T,Q\} \; \{7\} \; (R) \\ RIVLQTSTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (K) \; (V,L,P,M,S,C) \; \{7\} \; (R) \\ KPSCVPLMR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (V,L,F,S,T,Q) \; \{7\} \; (R) \\ RLVFQTSTR
                                                                                                                  < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (F,P,M,S,T) \; \{7\} \; (K) \\ RFPMMSTFK
                                                                                                                                                                                                                                                                  < (K, R, H) \; (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \; \{7,7\} \; (K, R, H) > \\ (R) \; (A, L, F, S, T, N) \; \{7\} \; (K) \\ RPALNSTFK
                                                                                                                                                                                                                                                                                                                                                                                                           < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (K) \; (V,L,P,M,S,C) \; \{7\} \; (R) \\ KPSCVPLMR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         < (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) > \\ (K) (V, L, P, M, S, C) \{7\} (R) \\ KDSCVPLMR
(R) (L, P, S, T, C) {7} (R)
RSCTLPPLR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ck: 3548 len: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ck: 3472 len: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           len: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ck: 3672 len: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ck: 3696 len: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ck: 3472 len: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ck: 3548 len: 9
                                                                                                                                                                                                                                                                                                                                                                           ck: 3548 len: 9
                                                                                   len: 9
                                                                                                                                                                                                                                 ck: 3432 len: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ck: 3378
                                                                                      ck: 3476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         90,
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		1	<(K,R,H)(G,A,V
AAY45852		i i	
.	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (H) (L, M, T, C) {7} (K) HTML MCCK</pre>	AAW97381	1 ck: 3548 len:
			0) (5 0 2) /
AAY46647	ck: 3047 len: 9 ! Aay46647 Immunogenic peptide having a human	.	(b) (a, A, B) (d)
	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (K) (A,L) {7} (K) (K,L) {7}</pre>		
 H	KLAAAAK	AAW67793	3 ck: 3465 len:
AAY46725	ck: 3657 len: 9 Aay46725 Immunogenic peptide having a human	н	< (K, R, H) (G, A, V
	R,H) (G,A,V,L,F,P,	: [1	
1:	HLFGYSWYK	AAW67787	7 ck: 3472 len:
0.00	de 2002 los. O lassidação Tamminocenio nentide havino a himar	1	< (K, R, H) (G, A,
AA148/30	R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (B) (G,L,S,M,Q) {7} (R)	1: 	
			() (in a a)
AAY46731	! Aay46731 Immunogenic pepti	:. H	< (b, k, b) (g, b,
 	<(K, K, H) (G, A, V, L, F, P, M, S, T, Y, N, Q, C) { ', ' } (K, K, H) > (R) (G, L, S, V, Q) { 7 } (R) RLQLSNGNR	AAB18482	32 ck: 3472 len
			< (K, R, H) (G, A,
AAY46771	ck: 3353 len: 9 ! Aay46771 Immunogenic peptide having a human		
1:	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) ></pre>	AAB23542	12 ck: 3472 len
		н	<(K,R,H)(G,A,
AAY46831	ck: 3610 len: 9 ! Aay46831 Immunogenic peptide having a human	1:	٠
:	<(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, M, Q, C) {', '} (K, K, H) > (R) (L, P, P, S, T, Q) {7} (R) RLPSFPTQR	AAY97911	11 ck: 3402 len
AAY46925	ck: 3406 len: 9 Aav46925 Immunocenic peptide having a human	п	< (K, R, H) (G, A,
: ਜ	(G, A, V, L, F, P, (K) (G, V	1: AAY97926	26 ck: 3402 len
20037044	ישוות א בחיואה פיהור אבר יליה אימות הפיהוק פי ימים 1 אימות אר ימים 1 אימות אנה ימים 1 מימון מאר ימים.	1	< (K, R, H) (G, A,
	(G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (K) (G, V, L, F, T, N) {7} (R)		Ť
 ::	KVGNFTGLR	AAY97941	
AAY30986	ck: 3472 len: 9 ! Aay30986 Non-crosslinked protein particle p	· · ·	<(K,R,H)(G,A,
;;	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> (R) (G,F,P,S) {7} (R) RPPGFSPFR</pre>	AAY77218	18 ck: 3472 len
AAY06938	ck: 3472 len: 9 Aav06938 Bradvkinin peptide fragment. 7/199	т	<(K,R,H)(G,A
		1:	

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! Aaw97381 A VEGF/VPF antagonist used in an a
                                                                                                                                                                                                                                                         ! Aaw67793 [Lys(1)]-bradykinin as substrate :
                                                                                                                                                                                                                                                                                                                                                                                                     ! Aaw67787 Bradykinin substrate for rat brain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ! Aab18478 Peptide substrate used to test pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ! Aab18482 Peptide substrate used to test pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ! Aab23542 Arginine bradykinin peptide. 1/20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      n: 9 ! Aay97926 Bradykinin 2 receptor antagonist,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ! Aay97941 Bradykinin 2 receptor antagonist,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ! Aay97911 Bradykinin 2 receptor antagonist,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (R) (G, F, P, S) {7} (R, R, H) > 
RPGFSFFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A, V, L, F, P, M, S, T, Y, W, N, Q, C) (7,7) (K, R, H) > (R) (G, F, P, S) (7) (R) RPPGFSFFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (R, (G, F, P, S) {7} (R) RPPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (R) (G, F, P, K, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (R) (G, F, P, S) {7} (R) RPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ', V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (R) (G, F, P, S) {7} (R) RPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ! Aay77218 Bradykinin. 5/2000
                                                                                                                                                                                                                                                                                             ,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (K) (G,F,P,S) {7} (R) (R) KPPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                             ,,V,b,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (R) (G,F,P,S) {7} (R) RPPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ',V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) 
(R) (G,F,P,S) {7} (R) 
RPPGFSPFR
V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (R) (G, F, P, S) {7} (R) RPPGFSPFR
                                                                                                                                                 (K) (V, L, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (K) (V, L, P, M, S, C) {7} (R) KPSCVPLMR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            en: 9
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! Abj09442 Hepatitis B virus analogue #54. 11

! Abj09443 Hepatitis B virus analogue #55. 11

AAY77223]-bradykin	н	1:	< (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (K), (G,V,L,F,C) {7} (R) (KYPULGGCR)
:: Fi	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, O, C) {7,7} (K, R, H) > (R) (G, F, P, S) {7} (R) RPPGFSFFR</pre>		ABJ09442	ck: 3406 len: 9 ! Abj09442 Hepatitis B virus an
AAY57612	ck: 3548 len: 9 AayS7612 Human VEGF/VPF peptide SEQ ID NO:1	н	·	<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (K) (G,V,L,F,T,N) {7} (K) (X,R,H) >
 :-	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) > (K) (V, L, P, M, S, C) \{7\} (R) XRSCVPLMR$		ABJ09443	ck: 3469 len: 9 ! Abj09443 Hepatitis B virus an
	ck: 3548 len: 9 ! Aay58054 Vascular endothelial cell growth f	Ħ	r-	<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> (K) (G,V,L,F,T,N) {7} (R) (X) XVGNEPGIR
 	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> (K) (V,L,P,M,S,C) {7} (R) KPSCVPLMR</pre>		1: ABJ09770	ck: 3378 len: 9 ! Abj09770 Hepatitis B virus ep
	ck: 3557 len: 9 ! Aay59374 Bradykinin peptide analogue Brdyl.	н	,	<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (K) (G,Y,L,F,C) {7} (R)
1:	(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (R) (G,F,P,S,W) {7} (R) RPPGWSPFR		1: AAE25674	KVFVLGGCK Ck: 3472 len: 9 ! Aae25674 Bradykinin, a hormon
AAY73032	ck: 3378 len: 9 ! Aay73032 Hepatitis B virus (HBV)-derived MH	Ħ		$< (K,R,H) (G,A,V,L,P,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) > (R,R,H) \{7,P,P,S\} \{7,7\} (R,R,H) > PROPERSEPE$
1.	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, W, Q, C) \{7,7\} (K, R, H) > (K) (G, V, L, F, C) \{7\} (R) (K, R, H) > (K) (C, V, L, E, C) \{7\} (R)$		1: AAO15553	ck: 3472 len: 9 ! Aao15553 Human Bradykinin pep
	ck: 3503 len: 9 ! Abj15169 Immunogenic HIV peptide #29, 1/200	г	<u>:</u>	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) (7,7) (K,R,H) ></pre>
 	$<(K, K, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) > (R) (G, F, P, S, N, Q) \{7\} (K) RPGPPQSK$		AA018872	ck: 3657 len: 9 ! Aao18872 Human CEA27 T cell e
AAE26923	ck: 3345 len: 9 Aae26923 Decoy peptide, HDP89. 12/2002	H	·	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) > (H) (G, L, F, S, Y, W) \{7\} (K)$
 	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, W, Q, C) \{7,7\} (K, R, H) > (K) (A, Q) \{7\} (K) KQQQQQQK$		1: ABB78180	ck: 3472 len: 9 : Abb78180 Amino acid sequence
	ck: 3657 len: 9 ! Abg79074 Human CEA class I HLA widely expre	Ħ		$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) > (R, G, P, P, S) \{7\} (R)$ **PDCTSTREE**
਼ ਜੋ	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, W, Q, C) \{7,7\} (K, R, H) > (H) (G, L, F, S, Y, W) \{7\} (K) $ HLFGYSWYK		1: ABB78186	ck: 3465 len: 9 ! Abb78186 Amino acid sequence
ABJ06426	ck: 3378 len: 9 Abj06426 Hepatitis B virus epitope #644. 11	ч	<u>.</u>	<(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (K, R,
ä	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)></pre>		±. ABG69693	ck: 3566 len: 9 Abg69693 Polypeptide identifi
ABJ08044	ck: 3378 len: 9 Abj08044 Hepatitis B virus epitope #2262. 1	H	 	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7, 7} (K, R, H) > (K) (V, L, M, S, T, Y, C) {7} (K) KTLMSVCYK</pre>
ij	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (K) (G, V, L, F, C) {7} (R) KVFVLGGCR</pre>		ABP61650	ck: 3380 len: 9
ABJ08439	ck: 3378 len: 9 ! Abj08439 Hepatitis B virus epitope #2657. 1	1		<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> (H) (G,A,L,F,P,T) {7} (K)

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! Abj09770 Hepatitis B virus epitope #3722. 1
                                                                                                                                                                                                                                                           ! Aae25674 Bradykinin, a hormonal nonapeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ! Aao18872 Human CEA27 T cell epitope. 10/200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ! Abb78186 Amino acid sequence of peptide [L_{\lambda}]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ! Abp61650 Human KRPI tryptic digest peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ! Abb78180 Amino acid sequence of bradykinin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ! Abg69693 Polypeptide identification method
                                                                                                                                                                                                                                                                                                                                                                                                             ! Aao15553 Human Bradykinin peptide. 10/2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (G,P,P,S) {7} (R) KPPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (L,M,S,T,Y,C) {7} (K)
                                                                                                                                                                                                                                                                                                                                                                                                                                                  P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (G,F,P,S) {7} (R)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (G,F,P,S) {7} (R) RPGGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > G,A,L,F,P,T) {7} (K)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > G,L,F,S,Y,W) {7} (K) HLFGYSWYK
P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > ,Y,L,F,T,N) {7} (R)
                                                                                                                                                                                                                                                                                                   P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (G,F,P,S) {7} (R) RPPGFSPFR
                                                                                                                                                   P.M.S.T.Y.W.N.Q.C) {7,7} (K,R,H) > (G,V,L,F,C) {7} (R)
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		1		× (K
AAU99710	ck: 3472 len: 9 Aau99710 Human Bradykinin peptide sequence.		H	
ä	<(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> (R)(G,F,P,S){7}(R) RPPGFSPFR		ABP20722	ck:
		Н		× (K
AAE23396	len: 9 ! Aae23396 Lysine oxidase pe		: H	
	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, K, H) ></pre>		ABP22869	. A
	ck: 3472 len: 9 / Aau79295 Maitake acid protease related pept	1		Å Ä
	(R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (R) (G, F, P, S) {7} (R) (R) (R, RPGFSPFR)		1: AAM49755	స
i		1		× (X
ABG6 0849	2		.: ::	
:: त्व	ROGGGGGR		AAU24158	충
ABG60856	ck: 3589 len: 9 Abg60856 Cellular response to injury associ	ਜ		v (E
	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, W, O, C) \{7, 7\} (K, R, H) > (R, R, H) < (R, V, V, T, S, T, O, C) \{7, 7\} (R, R, H) > (R, R,$		 -	
1:	KCSVQTLLR		AAU26809	정
AAU96014	ck: 3657 len: 9 ! Aau96014 Carcino embryonic antigen (CEA) im	H		
 	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> (H) (G,L,F,S,Y,W) {7} {(X) HINGYSWYX</pre>			ਲੋ
		н		v
ABB08936	! Abb08936 Bradykinin peptid		:. H	
1.	<(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7, 7} (K, K, H) > (R, R, H) (G, A, V, L, F, P, M, P, R) (R, R, H) > (R, R, H) (R, R, H) (R, R, H) (R,		AAB85641	ç
8740	ck: 3295 len: 9 Aael8740 Human leucocyte antigen (HLA) clas	1		v
f	(R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) (7, 7) (K, R, F, F, H) (G, A, V, P, N) (7) (K) (H) (G, M,		1: AAG66801	చ
 -i		*		v
AAU12061	ck: 3456 len: 9 i Aau12061 Alcohol dehydrogenase (ADH) conser		1;	
1:	<pre><(K, K, H) (6, A, V, L, F, F, G, Y, Y,</pre>		AAG64745	ğ
		1		v
ABP14476			1:	
ä	(R) (G, A, V, L, S) {7} (K) RASVLSGGK		AAE04938	ť
		,-		٧

! Aae04938 Nuclear Dbf2-related (Ndr) substr ! Aag64745 Bradykinin peptide SEQ ID 1. 9/20 1 7 ! Abp22869 HIV All motif gag peptide #248. 7. ! Aau24158 Human MHC molecule HLA-A11 bindin ! Aau27119 Human Leukocyte Antigen (HLA) HLA ! Aau26809 Human Leukocyte Antigen (HLA) mol ! Aag66801 Bradykinin vasodilator potassium ! Aab85641 Synthetic peptide immunoreactive ! Abp20722 HIV A03 motif gag peptide #385. ! Abp20226 HIV A03 motif env peptide #430. ! Aam49755 Bradykinin peptide. 7/2002 $(K,R,H)\;(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C)\;\{7,7\}\;(K,R,H)>\\ (G,A,P,Q)\;\{7\}\;(K)\\ RGAAPPGQK$ $\begin{array}{l} (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,M,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,F,P,S) \; \{7\} \; (R) \\ RPPGFSPFR \end{array}$ $\begin{array}{l} (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,F,P,S) \; \{7\} \; (R) \\ RPPGFSPFR \end{array}$ <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (R) (G,L,S,N,Q) {7} (K) R1 $\begin{array}{l} (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,F,P,S) \; \{7\} \; (R) \\ RPPGFSPFR \end{array}$ $\begin{array}{l} (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (K) \; (G,L,F,Y,Q) \; \{7\} \; (R) \\ KGLIYQLFR \end{array}$
$$\begin{split} (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,L,S,N,Q) \; \{7\} \; (K) \\ RLQLSNGNK \end{split}$$
(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (R, (G, A, V, L, S) {7} (K) RASVLSGGK (X,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (R) (G,A,V,L,S) {7} (K) RASVLSGGK K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (R) (L,F,S,Y,C) {7} (H) RSICLFSYH k: 3472 len: 9 k: 3472 len: 9 len: 9 k: 3460 len: 9 k: 3379 len: 9 c: 3472 len: 9 k: 3510 len: 9 k: 3460 len: 9 : 3423 len: 9 : 3423 len: 9 : 3485 len: 9 k: 3472

AAB35578 ck: 3472 len: 9 ! Aab35578 Protein separation method related	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)> (R) (G,F,P,S) {7} (R) 1: RPPGFSPFR</pre>	AAB35579 ck: 3472 len: 9 ! Aab35579 Protein separation method related	$<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) > (R) (G,F,P,S) \{7\} (R) + (R,R,H) > RPGFRSPER + (R,R,H) + (R,$	M24739 ck: 3626 len: 9	$<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,M,N,Q,C) \{7,7\} (K,R,H)>$ $(H) (V,F,S,T,Y,N,Q) \{7\} (K)$ ++++++++++++++++++++++++++++++++++++	M24830	<pre><(K,R,H)(G,A,V,L,F,P,M,S,T,Y,M,N,Q,C){7,7}(K,R,H)> (H)(V,F,S,T,Y,N,Q){7}(K) 1:</pre>	M24845	$<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) > (R,R,H) (G,V,L,P,Q) \{7\} (R) $	M24853	$<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) > (K) (G,A,V,F,T,C) \{7\} (R) $ 1: KAVPCTGGR	J38048 ck: 3267 len:	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) > (K, R, H) (G, A, L, Q) \{7\} (K)$	J38078	$<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,W,V,C) \{7,7\} (K,R,H) > (K) (A,L,F,M,S,T) \{7\} (K) (X,R,H) > KMTATFLSK$	01872	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,M,N,Q,C) {7,7} (K,R,H)> (H) (G,A,V,P,S) {7} (K) 1:</pre>	ABR02273 ck: 3352 len: 9 Abr02273 Human cancer-related protein 74P31	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,O,C) {7,7} (K,R,H) > (H) (G,A,V,P,S) {7} (K) HVGPSAAPK</pre>	1700 Tionage Bonda Common manual 2700mls 1 0 mg to ann 12 22200mls
	#23 £		EQ ID NO:1		ope S		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 131. 7		1 109.		1 1		1 #68. 6		peptide 1	· ·	н	
(R) (G, F, P, S) {7} (R) RPPGFSPPR	ck: 3279 len: 9 Aae05217 Human HLA-A3 binding peptide	$(K) \langle A, L, S, Q \rangle \langle 7 \rangle \langle K \rangle$ $KLSAALQAK$	ck: 3548 len: 9 ! Aab97901 Human VEGF/VPF peptide S	<(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> (K)(V,L,P,M,S,C){7}(R) KPSCVPLMR	15 ck: 3252 len: 9 : Aab96035 HPV 18 E7 A3 MHC-binding epitope	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) > (H) (L, M, T, O) \{7\} (K) H H H H MLCMCK$.7 ck: 3356 len: 9 ! Aaj02237 Hepatitis C virus epitope #2228	< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (H) (G, A, L, F, S) {7} (H) HOLSAFSLH	.0 ck: 3628 len: 9 Aaj02240 Hepatitis C virus epitope #2231	<(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) > (H) (G, L, P, T, Y) {7} (R) HQPTPLLYR		< (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (H) (G,A,L,F,S) {7} (H) HGLSAFSLH	21 ck: 3628 len: 9 Aaj02721 Hepatitis C virus epitope #2712	<(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> (H)(G,L,P,T,Y){7}(R) HGPTPLLXR	ck: 3548 len: 9 Aab74574 VEGF VPF antagonist peptide	<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,M,N,Q,C) {7,7} (K,R,H)> (K) (V,L,P,M,S,C) {7} (R) KPSCVPLMR	9 ck: 3404 len: 9 Aab89339 HIV gp120 protein binding	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7, 7} (K, R, H) ></pre>		<(K, R, H) (G, A, V, L, F, P, M, S, T, Y, M, N, Q, C) {7, 7} (K, K, H) > (R) (G, F, P, S) {7} (R)
:: H	AAE05217	1:	AAB97901	1:	AAB9603	ä	AAJ02237	 :	AAJ02240	 H	AAJ02718	н ::	AAJ02721	н 	AAB74574	 	AAB8933	ij	AAB73103	

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ABR14969 ck: 3625 len: 9 ! Abr14969 Human cancer-related protein 161P?	$\langle (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) \rangle$ $(R) (V,F,W,N,Q) \{7\} (R)$ RVQVWFQNR	ABR15167 ck: 3625 len: 9 ! Abr15167 Human cancer-related protein 161P?	$<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) > (R) (V,F,W,N,Q) \{7\} (R) $ 1:	15461 ck: 3625 len:	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7, 7} (K, R, H) > (R) (V, F, W, N, Q) {7} (R) 1; RVQVWFQNR</pre>	R15655 ck: 3625 len:	<pre>< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7,7} (K, R, H) ></pre>	R17368	<pre><(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> (K)(V,P,S,Y,N){7}(R) 1:</pre>	R17385	<pre><(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> (H)(V,L,F,Y,N,Q){7}(R) 1: HVQNFLLYR</pre>	R17774 ck: 3587 len: 9	$<(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C)\{7,7\}(K,R,H)>$ (H)(V,L,F,Y,N,Q)\{7\{R\}+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	ABR17807 ck: 3742 len: 9 ! Abr17807 Human cancer-related protein 184P.	<pre><(K,R,H)(G,A,V,L,F,P,M,S,T,X,W,N,Q,C){7,7}(K,R,H)> (K,(V,P,S,Y,N){7}(R) 1. KSSPSNYVR</pre>	R17968 ck: 3587 len: 9	$\langle (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) > $ $(H) (V, L, F, Y, N, Q) \{7\} (R) $ $HVQNFLLYR$	ABR17996 ck: 3742 len: 9 ! Abr17996 Human cancer-related protein 184P.	$< (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) > (K,R,H) $	R19457
W,N,Q,C) {7,7} (K,R,H)>	l Abr02921 Human cancer-related protein 74P3B	W,N,Q,C) {7,7} (K,R,H)> {7} (K)	1 Abr06110 Human cancer-related protein 109P1	L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (R) (G,V,L,M,T) {7} (X) RTGWLTVVX	1 Abr06505 Human cancer-related protein 109P1	W,N,Q,C) (7,7) (K,R,H) > {7} (K)	1 Abr06672 Human cancer-related protein 109P1	W,N,Q,C) {7,7} (K,R,H) > {7} (K)	1 Abr11795 Human cancer-related protein 156P1	, W, N, Q, C) {7,7} (K, R, H) >	1 Abr12183 Human cancer-related protein 156P1	, W, N, Q, C) {7,7} (K, R, H) > (7) {7} (R, R, H) > (7) {R}	1 ! Abr12373 Human cancer-related protein 156P1	, w, N, Q, C) {7,7} (K, R, H) > 1 {7} (R) R	1 Abr12839 Human cancer-related protein 156P1	, w, N, Q, C) {7,7} (K, R, H) > 5) {7} (R) R	1 ! Abr14581 Human cancer-related protein 161P2); (7); (8); (8); (8); (8); (1); (1); (2); (3); (4); (4); (5); (6); (6); (7); (7); (7); (7); (7); (7); (7); (7	1 Abr14859 Human cancer-related protein 161P2) {7} (R) (R, R, H) > (R, R, H) > (R, R, H) > (R)
$ < (K, K, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) \\ (H, (G, A, V, P, S) \{7\} (K) \\ HVGPSAARK $	02921 ck: 3352 len: 9	<pre><(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) (H) (G,A,V,P,S) {7} (K) HVGPSAAPK</pre>	R06110 ck: 3620 len: 9	$\langle (K,R,H) (G,A,V,L,F,P,M,S,T,Y,I,F,P,M,S,L,R,T) \rangle$ (R) $\langle G,V,L,M,T \rangle$ RTGMLTVVK	06505 ck: 3620 len: 9	$ < (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) \\ (R) (G,V,L,M,T) \{7\} (K) \\ RTGMLTVVK $	R06672 ck: 3620 len: 9	<pre><(K, R, H) (G, A, V, L, P, P, M, S, T, Y, W, N, O, C) {7,7} (K, R, H) ></pre>	R11795 Ck: 3460 len: 9	$<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) \\ (K,A,V,F,M,S) \{7\} \{R\} \\ (A,X,R,MY) = (K,R,MY) \\ (K,R,MY) = (K,R,MY) \\ (K,R,$	R12183 ck: 3460 len: 9	$ < (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) \\ (K) (A,V,F,M,S) \{7\} (R) \\ KANYAFSNR $	R12373 ck: 3460 len: 9	$<(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) \\ (K) (A,V,F,M,S) \{7\} (R) \\ KAMVAFSMR$	R12839 ck: 3460 len: 9	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) \\ (K) (A, V, F, M, S) \{7\} (R) \\ 1. KANVAFSIRR$	R14581 ck: 3625 len: 9	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7,7\} (K, R, H) $ $(R) (V, F, W, N, Q) \{7\} (R)$ $RVQVWFQNR$	14859 ck: 3625 len: 9	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7, 7\} (K, R, H) $ (R) $(V, P, W, N, Q) \{7\} (R)$ 1.

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	<(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> (R)(V,L,P,Y,W){7}(H) RPPPWVLYH	ABR21
ABR20177	ck: 3414 len: 9 ! Abr20177 Human cancer-related protein 185P2	г.
 ન	$< (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, M, Q, C) \{7,7\} (K, R, H) > $ $(R) (G, A, P, M, S, T, Q) \{7\} (K)$ $RTSPGMAQK$	ABR2
ABR20256	ck: 3604 len: 9 ! Abr20256 Human cancer-related protein 185P2	
;;	<pre><(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> (K)(G,L,P,S,T){7}(K) KGLPSTSSK</pre>	ABR2
ABR20265	ck: 3376 len: 9 Abr20265 Human cancer-related protein 185P2	т
1:	$< (K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) > \\ (K) (G,F,S,T) \{7\} (K) \\ KTSGFGSGK$	ď
ABR20570	ck: 3376 len: 9 ! Abr20570 Human cancer-related protein 185P2	
1:	<(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> (K)(G,F,S,T){7}(K) KTSGFGSGK	ď.
ABR20596	ck: 3414 len: 9 ! Abr20596 Human cancer-related protein 185P2	
т ::	<pre><(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> (R)(G,A,P,M,S,T,Q){7}(K)</pre>	ABR2
ABR20769	ck: 3376 len: 9 ! Abr20769 Human cancer-related protein 185P2	H
1;	<(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)> (K)(G,F,S,T){7}(K) KTSGFGSGK	I: ABR2
ABR20770	ck: 3414 len: 9 ! Abr20770 Human cancer-related protein 185P2	н
1:	,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) > (R,H) (G,A,P,M,S,T,Q) {7} (K)	1: ABR2
ABR20813	ck: 3604 len: 9 ! Abr20813 Human cancer-related protein 185P2	1
1:	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7, 7} (K, R, H) ></pre>	1: ABR2
ABR21641	ck: 3604 len: 9 ! Abr21641 Human cancer-related protein 185P2	н
ដ	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) {7, 7} (K, R, H) ></pre>	ABR2
ABR21652	ck: 3376 len: 9 : Abr21652 Human cancer-related protein 185P2	п.
	<pre><(K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) { ' ', ' } (K, K, H) > (K) (G, F, S, T) { 7 } (K)</pre>	

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! Abr23569 Human cancer-related protein 185P?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ! Abr22978 Human cancer-related protein 185P2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ! Abr23059 Human cancer-related protein 185P?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ! Abr23369 Human cancer-related protein 185P?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ! Abr23370 Human cancer-related protein 185P?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ! Abr23397 Human cancer-related protein 185P?
                                                                                                                                                                                                                                                                                                                                                                                              ! Abr22207 Human cancer-related protein 185P?
                                                                                                                                                                                                                             ! Abr22169 Human cancer-related protein 185P?
                                                            ! Abr21970 Human cancer-related protein 185P2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) >
(R) (G,A,P,M,S,T,Q) {7} (K)
RTSPGMAQK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (K) \; (G,F,S,T) \; \{7\} \; (K) \\ KTSGFGSGK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,O,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,A,V,L,P,S,T) \; \{7\} \; (K) \\ RLPAGSTVK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) >
(K) (G,F,S,T) {7} (K)
XTSGFGSGK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (K) \; (G,L,P,S,T) \; \{7\} \; (K) \\ KGLPSTSSK
                                                                                                                                                                                                                                                                                                                                                                                                                                       <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) >
(K, (G,L,P,S,T) {7} (X)
KQLPSTSSK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (R) \; (G,A,P,M,S,T,Q) \; \{7\} \; (K) \\ RTSPGMAQK
                                                                                                           < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (K) \; (G,F,S,T) \; \{7\} \; (K) \\ KTSGFGSGK
                                                                                                                                                                                                                                                                         < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (K) \; (G,F,S,T) \; \{7\} \; (K) \\ KTSGFGSGK
KTSGFGSGK
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                                                                    ck: 3376 len: 9
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Release 13.0, Released on 19Jun2003, Formatted on 15Jul2003
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158,726,570
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein 187P3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ! Abg76066 Human regulatory peptide, bradykir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ! Abr24828 Human cancer-related protein 185P3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ! Abr25013 Human cancer-related protein 185P3
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                                                                                                                    ! Abr23574 Human cancer-related protein 185P2
                                                                                                                                                                                                                                           protein 185P2
                                                                                                                                                                                                                                                                                                                                                                 1 Abr24428 Human cancer-related protein 185P3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ! Abp58250 Human pre-gastrokine (pre-AMP-18)
| Abr23570 Human cancer-related protein 185P2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ! Abr27626 Human cancer-related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ! Abr27791 Human cancer-related
                                                                                                                                                                                                                                           ! Abr23614 Human cancer-related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)>
KQPGGPPFK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C)(7,7)(K,R,H)>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)>
(R)(G,F,P,S){7}(R)
RPPGFSPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (H) \; (A,V,L,P,T,W,Q) \; \{7\} \; (H) \\ HQWVTALPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H)>
(K) (G,L,P,S,N) {7} (R)
KSPGNGSLR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <(K,R,H)(G,A,V,L,F,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)>
(K)(G,L,P,S,N){7}(R)
KSPQNGSLR
                             < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \\ \{7,7\} \; (K,R,H) > \\ (R,G,A,P,M,S,T,Q) \; \{7\} \; (K) \\ RTSPGMAQK
                                                                                                                                                      < (K, R, H) \; (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \; \{7,7\} \; (K, R, H) > \\ (R) \; (G, A, V, L, P, S, T) \; \{7\} \; (K) \\ RLPAGSTVK
                                                                                                                                                                                                                                                                            <(K,R,H)(G,A,V,L,P,P,M,S,T,Y,W,N,Q,C){7,7}(K,R,H)>
(K)(G,L,P,S,T){7}(K)
KGLPSTSSK
                                                                                                                                                                                                                                                                                                                                                                                                <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \{7,7\} (K,R,H) > (K,R,H,C,S,N) \{7\} (R) KSPGNGSLR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) \\ (H) \; (A,V,L,P,T,W,Q) \; \{7\} \; (H) \\ HQWTALPH
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   ck: 3414
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   ABR23570
                                                                                                                           ABR23574
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! Aae32920 T-cell epitope mutant #1. 3/2003
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                                                                                             ! Aae32631 T-cell epitope peptide. 3/2003
                                                                                                                                                                                                                                                                                                                                                                                                                                    ! Aae32919 T-cell epitope peptide. 3/2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     < (K,R,H) \; (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) \; \{7,7\} \; (K,R,H) > \\ (K) \; (G,A,P,S,T) \; \{7\} \; (K) \\ KSATATPGK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) >
(K) (G,L,P,S) {7} (K)
KSLSLSPGK
                                                                                                                                                                                                                                                                                                           < (K, R, H) \; (G, A, V, L, F, P, M, S, T, Y, W, M, Q, C) \; \{7,7\} \; (K, R, H) > \\ (K) \; (G, A, P, S, T) \; \{7\} \; (K) \\ KSATATPGK
                                                                                                                                       <(K,R,H) (G,A,V,L,F,P,M,S,T,Y,W,N,Q,C) {7,7} (K,R,H) >
(K) (G,L,P,S) {7} (K)
KSLSLSPGK
(K) (G, P) {7} (K) KGPGGPPPK
                                                                                                                                                                                                                                                                                                                                                                                                                                           len: 9
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                                                                                                       ck: 3482 len: 9
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AAP40762;

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When used to replace normal AAs in a peptide chain, the cyclopropyl AAs stabilise the peptide against enzymatic cleavage and acid hydrolysis, and the peptide has good long term stability. Peptides contg. cyclopropyl AAs have numerous pharmacological properties, e.g. as bacteriostats, alstherapeutics, analgetics, CNS regulators, blood pressure regulators, renin inhibitors, antihypertensives and bradykinin inhibitors for shock treatment. They may also be herbicides, pesticides etc. Dose is 50-100 mg/kg for intravascular
                                                                                                                                                                                                                                                                                                                                                                                                                             cyclopropyl-amino acids and peptide(s) - useful as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (Updated on 03-OCT-2002 to add missing OS field.) (Updated on 25-MAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           'note="beta-(2-thienyl)-Ala"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New bradykinin analogue with D-Arg, Hyp,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bradykinin analogue; bradykinin antagonist
                                                                                                                                                                                                                                                                                                                                                                                                                                                        therapeutic agents, sweetening agents etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example; Table II, Page 25; 82pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAP50468 Length: 9 December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                      (UYGE-) UNIV GEORGIA RES FOUND INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE 1.0
AAP91673 standard; protein; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          note="As above"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /label=D-Phe
                                                                                                                                                           84US-0636091.
83US-0523808.
88US-0285542.
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                                                                                                             84WO-US01278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (updated)
(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (updated)
                                                                                                                                                                                                                                                                                                                                                                      WPI; 1985-062273/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Key
Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Misc-difference
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 RPPGFSPFR
                                                                                                                                                           03-AUG-1984;
16-AUG-1983;
15-DEC-1988;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-MAR-2003
31-OCT-2002
                                                                                                             14-AUG-1984;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO8901781-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   09-MAR-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29-JUN-1990
     WO8500809-A
                                                         28-FEB-1985
                                                                                                                                                                                                                                                                                                                          Stammer CH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAP91673;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mammalia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       D-Phe.
     THE STATE STATES OF STATES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The cyclic peptide was prepd as follows: 23 mg (0.019M) cyclo-(phenylalanyl-(nitro)arginyl-(nitro)arginyl-prolyl-prolyl-prolyl-prolyl-prolyl-prolyl-prolyl) was hydrogenated using Pd black in 3 ml methanol and 0.1 ml acetic acid for 70 hrs to give 15.5 mg powdered cyclo bradykinin (yield 71%).

(Updated on 25-MAR-2003 to correct PF field.)

(Updated on 25-MAR-2003 to correct PR field.)

(Updated on 25-MAR-2003 to correct PR field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New cyclic analogue of bradykinin - exibiting long-term hypotensive action and prepared by known peptide chemical methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     December 11, 2003 07:10 Type: P Check: 3472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence of cyclopropyl peptide with bradykinin inhibitor and shock treatment activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cyclopropyl peptide; analgetic; CNS regulator;
blood pressure regulator; renin inhibitor; anti-hypertensive;
bradykinin inhibitor; shock therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /label= optionally, cyclopropyl-Phe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /label= optionally, cyclopropyl-Phe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Myshlyakov NV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (ALOR ) AS LATV ORGANIC SYNTHESIS INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA
                              AAP40762 standard; peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PAA SEQUENCE 1.0
| AAP50468 standard; peptide; 9
                                                                                                                                                                                                                  Cyclic analogue of bradykinin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; Page 1; 6pp; Russian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   80SU-2964712
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(updated)
(first entry)
                                                                                                                                      (updated)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chipens GI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1984-079919/13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAP40762 Length: 9
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!! AA SEQUENCE 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-JUL-1980;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-JUL-1980;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-MAR-2003
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01-DEC-1991
                                                                                                                                      25-MAR-2003
04-AUG-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mutulis FK,
                                                                                                                                                                                                                                                                                                                                                                                                                               15-SEP-1983
                                                                                                                                                                                                                                                                            Hypotensive
                                                                                                                                                                                                                                                                                                                                                                              SU892871-A
                                                                                                                                                                                                                                                                                                                                Synthetic:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
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Type: P Check: 3472

beta-(2-thienyl)-Ala and

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It may be prepd. by conventional liq. - or solid-phase peptide synthesis methods. It is useful for treating local pain, inflammation and swelling, rhintitis, hypotension, asthma, arthritis, diarrhoea, irritable bowel syndrome, carcinoid syndrome, angina pain, and anaphylactic or septic shock. Pharmaceutical compsns. can be made with
                                                                                                                                    New peptide bradykinin analogues -
with D-amino acid in 7 position, useful as bradykinin antagonists
                                                                                                                                                                                                                                                                                                                     December 11, 2003 07:10 Type: P Check: 3337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /label= Me, Et or 1-adamantylmethyl-Arg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New amino-acylated bradykinin analogues with improved
                                                                                                                                                                                                                                                            (Updated on 31-OCT-2002 to add missing OS field.) (Updated on 25-MAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           'label= beta-2-thienyl-L-alanine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       label= beta-2-thienyl-L-alanine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  antagonist; vascular disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Acylated bradykinin analogue (1).
                                                                                                                                                                      Claim 16; page 53; 54pp; English.
                                                                                                                                                                                                                                                                                                                                                                  !!AA_SEQUENCE 1.0
ID AAR12821 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                label= D-PHE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 90WO-US07268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     89US-0447713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'label= HYP
          88WO-US02960
                                 87US-0091995
                                                                                                                                                                                                                                                                                                                                                                                                                          (updated)
(first entry)
                                                       (STEW/) STEWART J M. (NOVA-) NOVA TECHN LTD.
                                                                                        Vavrek RJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lammek B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (UYBO-) UNIV BOSTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1991-208090/28
                                                                                                               WPI; 1989-085401/11
                                                                                                                                                                                                                                                                                                                     AAP91673 Length: 9
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Misc-difference
                                                                                                                                                                                                                                                                                               9 AA
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                                                                                                                                                                                                                                                                                                                                            RPPGASFAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-DEC-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     38-DEC-1989;
          29-AUG-1988;
                                 02-SEP-1987;
                                                                                                                                                                                                                                                                                                                                                                                                                          25-MAR-2003
17-SEP-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bradykinin;
                                                                                        Stewart JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO9109055-A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gavras H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                 Sequence
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The inventors claim an artificial antibody (Ab) which has both antigen-binding activity (ABA) and artificial cell adhesive activity (ABA). AcA, is given by the tetrapeptide Arg-Gly-Asp-Ser (RS sequence). The RS sequence is inserted into a constant region of the H-chain of Ab. The DNA encoding the Ab is also claimed. Incorporation of ACAA into Ab accelerates phagocytosis of immune complexes, improves movement of antibodies in tissues and may also (Updated on 25-MAR-2003 to correct PA field.)
diabetic
                                                                        The analogue is a peptide with an N-terminal acyl gp. of formula XCO, where X is an organic gp. contg. at least one C atom. It is produced by acylating non-acylated bradykinin analogues with XCOOH or their reactive derive. Pref. dosage is 3-15 mg/dose. See also AAR12821-24. (Updated on 25-MAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New mutated antibody contg. cell adhesion sequence - and DNA encoding it, showing accelerated phagocytosis of immune complexes and better tissue transport
                                                                                                                                                                                                                                                                                                                                                                                                    gene for the is altered by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAR20132 Length: 9 December 11, 2003 07:10 Type: P Check: 3482
                                                                                                                                                                                                                  Check: 3337
antagonistic potency - for treatment of angina, arrhythmia, neuropathy, bronchial asthma, trigeminal neurolgia etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ë
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Koiti
                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID No. 8 encoded by fragment of the structural constant region of the human IgG heavy chain which mutagenesis to inc. cell adhesive activity.
                                                                                                                                                                                                                  Type: P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Yoshikazu K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Artificial antibody; antigen-binding activity; cell adhesive activity; phagocytosis.
                                                                                                                                                                                                              AAR12821 Length: 9 December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fusao K, Ikunoshin K,
                                              Disclosure; Page ?; 33pp; English
                                                                                                                                                                                                                                                                                          AAR20132 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example; Page 23; 38pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      91EP-0306351,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    91JP-0162521,
90JP-0184158,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (UYPU-) FUJITA HEALTH UNIV.
(TAKI ) TAKARA SHUZO CO LTD
                                                                                                                                                                                                                                                                                                                                                        (updated)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1992-018095/03.
N-PSDB; AAQ20296.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9 AA;
                                                                                                                                                                                     Sequence 9 AA;
                                                                                                                                                                                                                                                RPPGASFAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-JUL-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-JUN-1991;
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Kiyotoshi S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-JUL-1990;
                                                                                                                                                                                                                                                                             SEQUENCE 1.0
                                                                                                                                                                                                                                                                                                                                                       25-MAR-2003
14-APR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .5-JAN-1992
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                                                                                                                                                                                                                                                                                                                          AAR20132;
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                                                                                                                                                                                                                                                                               I AA
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1 KSLSLSPGK

02-DEC-1992

AAR24411;

JP04126079-A

Synthetic

14-SEP-1990;

14-SEP-1990;

27-APR-1992

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The sequence is that of a blood-brain permeabiliser peptide which may be administered intravascularly to increase permeability of the barrier to low mol. wt. cpds., e.g. diagnostic (esp. radiolabelled) imaging agents or neuropharmaceuticals (antimicrobla1s, antinophastic agents, etc), so increases entry of such compounds into the interstitial fluid compartments of the brain Use of the peptide is much less invasive than intrathecal injection or osmotic disruption of the barrier. The effect of the peptide is probably mediated by the bradykinin Bz receptors, but compared with bradykinin, smaller doses are required for a permeabilising effect and it can be given intravenously since it is not degraded by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Receptor-mediated permeabiliser peptide(s) - for increasing blood-
brain barrier permeability to therapeutic and diagnostic agents
                                                                                                                                                                                                            Receptor-mediated permeabiliser peptide(s) - for increasing blood-
brain barrier permeability to therapeutic and diagnostic agents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             angiotensin-converting enzyme. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Malfroy-Camine B, Musso GF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Blood-brain barrier permeabiliser peptide.
                                                                                                                                          Musso GF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
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AAR28419 standard; peptide; 9 AA.
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                                                                                                                                           Kozarich JW, Malfroy-Camine B,
                                                                                                                                                                                                                                                                        Claim 3; Page 60; 87pp; English
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                                  92WO-US03352.
                                                                     91US-0690522
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(first entry)
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/label= ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1992-382042/46.
                                                                                                         (ALKE-) ALKERMES INC
                                                                                                                                                                             WPI; 1992-382042/46.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 9 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kozarich JW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23-APR-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23-APR-1991;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-OCT-1992
                                   23-APR-1992;
                                                                     23-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-MAR-2003
01-APR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Diagnostic;
29-OCT-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAR28419;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "4-methyltyrosine-psi(CH2NH)-, may be L or D-form"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The sequences given in AAR24410-16 are peptides used within the scope of the invention as substrates for the action of microorganism-derived carboxy peptidase B (CPase B)-11ke enzyme. The enzyme has substrate specificity and acts on glycyl-glycyl-tyrocyl arginine bradykinin neurotensin fragment 1-8. The arginine of the C-terminal is freed by Mydrolygis. CPase B-like enzyme can be used in biochemical reagents, or medical supplies. The enzyme specificity is different to that of CPase B, and may be used in protein primary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              December 11, 2003 07:10 Type: P Check: 3472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Microorganism-derived carboxy peptidase B-like enzyme for prin protein determn. - has arginine or lysine at terminal carbon@, substrate specificity to glycyl-glycyl-tyrocyl arginine bradykinin and specified rotencine fragment
                                                                                                                                                                                                      CPase B; bradykinin neurotensin; hydrolysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Blood-brain barrier permeabiliser peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 5; 11pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    !!AA_SEQUENCE 1.0
ID _AAR28416 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        neuropharmaceuticals
                                           !!AA SEQUENCE 1.0
ID —AAR24411 standard; Protein; 9 AA.
                                                                                                                                                                    CPase B-like enzyme substrate 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              structure determining reagents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /label= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                label= 4Hyp
                                                                                                                                                                                                                                                                                                                                                                                        90JP-0244780.
                                                                                                                                                                                                                                                                                                                                                      90JP-0244780.
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(first entry)
                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                            (YAMA-) YAMATO KASEI KK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1992-196230/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAR24411 Length: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RPPGFSPFR
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Andified-site

25-MAR-2003 01-APR-1993

AAR28416;

Sequence

Diagnostic;

Synthetic

WO9218529-A1

Type: P Check: 3654

seq28-agen.res

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The peptide is an example of a synthetic peptide contg. a thiolactive cysteine residue and at least two positively charged amino acid residues situated at the the N and/or C terminal sides of the thiol-active cysteine. The peptide is pref. amidated at the C-terminus. The peptides may be used in conjunction with an antibody complex comprising a domain specific for an antigenic determinant of a complex of human IgA and alpha-l-antitrypsin, for use in therapy of rheumatoid arthritis. Admin. is oral or parenteral.
   The sequence is that of a blood-brain permeabiliser peptide which may be administered intravascularly to increase permeability of the barrier to low mol. wt. cpds., e.g. diagnostic (esp. radiolabelled) inaging agents or neuropharmaceuticals (antimicrobials, anticonvulsants, antineoplastic agents, etc), so increases entry of such compounds into the interstitial fluid compartments of the brain. Use of the peptide is much less invasive than intrathecal injection or osmotic disruption of the barrier. The effect of the peptide is probably mediated by the bradykinin B2 receptors, but compared with bradykinin, smaller doses are required for a permeabilising effect and intravenously since it is not degraded by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New synthetic peptide(s) - cause dissociation or prevent formation of IgA-alpha-antitrypsin complex, useful for treating and preventing rheumatoid arthritis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Thiol-active cysteine; antibody; complex; rheumatoid arthritis; therapy; IgA-alpha-antitrypsin.
                                                                                                                                                                                                                                                                               Check: 3550
                                                                                                                                                                                                                                                                                Type: P
                                                                                                                                                                                               angiotensin-converting enzyme. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Stanworth DR;
                                                                                                                                                                                                                                                                                2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (BRIE-) BRITISH TECHNOLOGY GROUP LID
                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                December 11,
                                                                                                                                                                                                                                               9 AA;
                                                                                                                                                                                                                                                                               AAR28419 Length: 9
                                                                                                                                                                                                                                                                                                                  1 RPPGLSPLR
                                                                                                                                                                                                                                                 Sequence
X2222222222222222
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AAR36629 Length: 9 December 11, 2003 07:10 Type: P Check: 3216

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The peptide is an example of a synthetic peptide contg. a thiolactive cysteine residue and at least two positively charged amino acid residues situated at the the N and/or C terminal sides of the thiol-active cysteine. The peptide is pref. amidated at the C-terminus. The peptides may be used in conjunction with an antibody complising a domain specific for an antigenic determinant of a complex of human IgA and alpha-1-antitrypsin, for use in therapy of rheumatoid arthritis. Admin. is oral or parenteral.
                                                                                                                                                                                                                                                                                                                                                                                                                        New synthetic peptide(s) - cause dissociation or prevent formation of IgA-alpha-antitrypsin complex, useful for treating and preventing rheumatoid arthritis
                                                                                                             Thiol-active cysteine, antibody; complex; rheumatoid arthritis; therapy; IgA-alpha-antitrypsin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Thiol-active cysteine; antibody; complex; rheumatoid arthritis; therapy; IgA-alpha-antitrypsin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             December 11, 2003 07:10 Type: P Check: 3212
                                                                                                                                                                                                                                                                                                                                                                     Stanworth DR;
                                                                                                                                                                                                                                                                                                                                           (BRIE-) BRITISH TECHNOLOGY GROUP LID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                           /note= "amidated"
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!!AA_SEQUENCE 1.0
ID AAR36633 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | AA SEQUENCE 1.0
| AAR36637 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Page 23; 38pp; English
                                                                                                                                                                                                                                                                                                                                                                     Kirby J, Lewin IV, Nayyar S,
                                                                                         Group I synthetic peptide 163.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Group I synthetic peptide 173
                                                                                                                                                                                                                                                                                        92GB-0024684
                                                                                                                                                                                                                                                                                                                  91GB-0025024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            See also AAR36613-74.
                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1993-169522/21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAR36633 Length: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 HGGGCGGGK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Key
Modified-site
                                                                                                                                                                                    Key
Modified-site
                                                                                                                                                                                                                                                                                         25-NOV-1992;
                                                                                                                                                                                                                                                                                                                  25-NOV-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-SEP-1993
                                                               07-SEP-1993
                                                                                                                                                                                                                                      GB2261665-A.
                                                                                                                                                                                                                                                               26-MAY-1993.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAR36637;
                                      AAR36633;
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Stanworth DR;

Nayyar S,

91GB-0025024 92GB-0024684

GB2261665-A

seq28-agen.res

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The peptide is an example of a synthetic peptide contg. a thiolactive cysteine residue and at least two positively charged amino acid residues situated at the the N and/or C terminal sides of the thiol-active cysteine. The peptide is pref. amidated at the C-terminus. The peptides may be used in conjunction with an antibody complishing a domain specific for an antigenic determinant of a complex of human IgA and alpha-l-antitrypsin, for use in therapy of rheumatoid arthritis. Admin, is oral or parenteral.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Prodn. and use of human class I MHC molecules for activation of
                                                                                                                                                                          New synthetic peptide(s) - cause dissociation or prevent formation of IgA-alpha-antitrypsin complex, useful for treating and preventing rheumatoid arthritis

    for therapy of e.g. cancer, viral, retroviral and

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antigenic peptide bound by MHC class one molecules.
                                                                                                        (BRTE-) BRITISH TECHNOLOGY GROUP LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                    !!AA SEQUENCE 1.0
ID _AAR41460 standard; Protein; 9 AA.
                                                                                                                                                                                                                                Claim 1; Page 23; 38pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (SCRI ) SCRIPPS RES INST
                                                                                                                                                                                                                                                                                                                                                     See also AAR36613-74.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Leucocyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   auto-immune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1993-288401/36
                                                                                                                                Kirby J, Lewin IV,
                                                                                                                                                        WPI; 1993-169522/21
                                                                                                                                                                                                                                                                                                                                                                                                     AAR36637 Length: 9
                                                                                                                                                                                                                                                                                                                                                                              9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HLA; Human Leu
autoimmunity;
                                                                                                                                                                                                                                                                                                                                                                                                                               HGGGGCGGK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-FEB-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO9317095-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19-FEB-1992;
                                                                                   25-NOV-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-MAR-2003
23-FEB-1994
                                                           25-NOV-1992;
                                   26-MAY-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Jackson M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CD8 cells
                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR41460;
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ucccyte Antigen; MHC; Class one molecules; cancer; transplant rejection; T-cell activation.

(updated)
(first entry)

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The sequence is a specific example of a group of new immunogenic peptides having an HLA-A3.2, HLA-A11 or HLA-A3.1 binding motif. For example, the peptides having an HLA-A3.2 binding motif each have 9-10 residues and contain, from the N-terminus to the C-terminus, (a) a first conserved residue selected from L, M, I, V, S, M, T, F, C, G, D and B and (b) a second conserved residue of K, R, Y, M for F, where the first and second conserved residue of separated by 6-7 residues. The peptides are capable of binding selected wHC molecules and inducing an immune response. They can be used to treat and/or prevent viral infection and cancer, e.g. prostate cancer, lymphoma, hepatitis or AIDS. They can also be used to produce antibodies for use as diagnostic or therapeutic agents. The peptides can also be used as diagnostic agents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Immunogen, HLA, human leukocyte antigen; binding motif; antiviral; MHC; major histocompatability complex; viral infection; anticancer; prostate cancer; lymphoma; hepatitis; AIDS; diagnostic; diagnosis.
the control of an inducible promoter. This provides a means of producing, loading and using Class I MHC molecules to specifically activate CD8 cells in vitro. Activated cells can be used to specifically kill target cells and also to treat cancer as wall as viral, retroviral, autoimmune and autoimmune-type diseases. When conjugated to a toxin, empty human MHC molecules expressed by the cells can be used to inhibit transplant rejection. A number of antigenic peptides (AARAL450-R4146) are synthesised to be bound by the MHC molecules and this binding can then activate the CD8 cells. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Peptide which specifically binds selected MHC allele - used to induce an immune response for treatment or prevention of viral infection or cancer, or for diagnosis
                                                                                                                                                                                                                                                           Check: 3546
                                                                                                                                                                                                                                                           Type: P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hepatitis B virus-derived HLA-binding peptide.
                                                                                                                                                                                                                                                           December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sette A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 107; 150pp; English
                                                                                                                                                                                                                                                                                                                                                           AAY38133 standard; Peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kubo RT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            93US-0027746.
92US-0926666.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      93WO-US07421
                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1994-065403/08.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (CYTE-) CYTEL CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Grey HM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hepatitis B virus.
                                                                                                                                                                                                                         9 AA;
                                                                                                                                                                                                                                                           AAR41460 Length: 9
                                                                                                                                                                                                                                                                                                   RGYVYQGLK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-AUG-1993;
                                                                                                                                                                                                                                                                                                                                       !! AA_SEQUENCE 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-MAR-1993;
07-AUG-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                      29-SEP-1999
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                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Celis E,
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Check: 3208

Type: P

December 11, 2003 07:10

Check: 3378

AAY38133 Length: 9 December 11, 2003 07:10 Type: P

9 A

Sequence

Human class I MHC genes are inserted into a cell and placed under

Disclosure; Page 118; 182pp; English

Peterson PA;

Ď,

Langlade-demoyen

93WO-US01557 92US-0841662 17-FEB-1994

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The sequence is a specific example of a group of new immunogenic peptides having an HLA-A3.2, HLA-A1, HLA-A11 or HLA-A24.1 binding motif. For example, the peptides having an HLA-A3.2 binding motif each have 9-10 residues and contain, from the N-terminus to the C-terminus, (a) a first conserved residue selected from L, M, I, V, S, Y, H or F, where the first and second conserved residue of separated by 6-7 residues. The peptides are capable of binding selected MHC molecules and inducting an immune response. They can be used to treat and/or prevent viral infection and cancer, e.g. prostate cancer, Iymphoma, hepatitis or AIDS. They can also be used to produce antibodies for use as diagnostic or therapeutic agents. The peptides can also be used as diagnostic agents.
                                                                                                                                             Immunogen; HLA; human leukocyte antigen; binding motif; antiviral; MHC; major histocompatability complex; viral infection; anticancer; prostate cancer; lymphoma; hepatitis; AIDS; diagnostic; diagnosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          for treatment or prevention of viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Peptide which specifically binds selected MHC allele
                                                                                                                Hepatitis B virus-derived HLA-binding peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           induce an immune response for treatmer
infection or cancer, or for diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 107; 150pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                             Sette
                 AAY38136 standard; Peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                           Kubo RT,
                                                                                                                                                                                                                                                                                                                                           93US-0027746.
92US-0926666.
                                                                                                                                                                                                                                                                                                             93WO-US07421
                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                           Grey HM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1994-065403/08
                                                                                                                                                                                                                                                                                                                                                                                             (CYTE-) CYTEL CORP.
                                                                                                                                                                                                               Hepatitis B virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9 A.A.;
!AA_SEQUENCE 1.0
                                                                                                                                                                                                                                              WO9403205-A1
                                                                                                                                                                                                                                                                                                             06-AUG-1993;
                                                                                                                                                                                                                                                                                                                                             05-MAR-1993;
                                                                                                                                                                                                                                                                                                                                                              07-AUG-1992;
                                                                                 29-SEP-1999
                                                                                                                                                                                                                                                                              17-FEB-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                               AAY38136;
                                                                                                                                                                                                                                                                                                                                                                                                                           Celis E,
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December 11, 2003 07:10 Type: P Check: 3712 AAY38136 Length: 9

1 RLVPQTSTR

!!AA_SEQUENCE 1.0 ID AAY38138 standard; Peptide; 9 AA

AAY38138;

Hepatitis B virus-derived HLA-binding peptide.

(first entry)

29-SEP-1999

anticancer; antiviral; diagnosis. Immunogen; HLA; human leukocyte antigen; binding motif; MHC; major histocompatability complex; viral infection; prostate cancer; lymphoma; hepatitis; AIDS; diagnostic;

Hepatitis B virus.

WO9403205-A1

The sequence is a specific example of a group of new immunogenic peptides having an HLA-A3.2, HLA-A1, HLA-A11 or HLA-A24.1 binding motif. For example, the peptides having an HLA-A3.2 binding motif each have 9-10 residues and contain, from the N-terminus to the C-terminus, (a) a first conserved residue selected from L, M, I, V, S, Y, H or F, where the first and second conserved residue of K, R, Y, H or F, where the first and second conserved residues are separated by 6-7 residues. The peptides are capable of binding selected MHC molecules and inducing an immune response. They can be used to treat and/or prevent viral infection and cancer, e.g prostate cancer, lymphoma, hepatitis or AIDS. They can also be used to produce antibodies for use as diagnostic or therapeutic agents. The peptides Peptide which specifically binds selected MHC allele - used to induce an immune response for treatment or prevention of viral infection or cancer, or for diagnosis December 11, 2003 07:10 Type: P Check: 3696 can also be used as diagnostic agents. Disclosure; Page 107; 150pp; English. |!!AA_SEQUENCE 1.0 ID AAY38278 standard; Peptide; 9 AA. 93WO-US07421 93US-0027746 92US-0926666 Kubo WPI; 1994-065403/08. (CYTE-) CYTEL CORP. Grey HM, AAY38138 Length: 9 9 AA; 1 RLVLQTSTR 06-AUG-1993; 05-MAR-1993; 07-AUG-1992; AAY38278; Celis E,

29-SEP-1999 (first entry)

HPV-derived HLA-binding peptide.

Immunogen; HLA; human leukocyte antigen; binding motif; antiviral; MHC; major histocompatability complex; viral infection; anticancer; prostate cancer; lymphoma; hepatitis; AIDS; diagnostic; diagnosis.

Human papillomavirus

WO9403205-A1

17-FEB-1994.

93WO-US07421 06-AUG-1993; 93US-0027746. 92US-0926666. 05-MAR-1993; 07-AUG-1992;

(CYTE-) CYTEL CORP.

Sette A; Kubo RT, Grey HM, Celis E,

WPI; 1994-065403/08

Peptide which specifically binds selected MHC allele - used to induce an immune response for treatment or prevention of viral infection or cancer, or for diagnosis

Check: 3252

December 11, 2003 07:10 Type: P

AAR47322 Length: 9

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The sequence is a specific example of a group of new immunogenic peptides having an HLA-A3.2 HLA-A1, HLA-A11 or HLA-A24.1 binding motif. For example, the peptides having an HLA-A3.2 binding motificach have 9-10 residues and contain, from the N-terminus to the C-terminus, (a) a first conserved residue selected from L, M, I, K, R, Y, H or F, where the first and second conserved residue of K, R, Y, H or F, where the first and second conserved residue of separated by 6-7 residues. The peptides are capable of binding selected MHC molecules and inducing an immune response. They can be used to treat and/or prevent viral infection and cancer, e.g. prostate cancer, lymphoma, hepatitis or AIDS. They can also be used to produce antibodies for use as diagnostic or therapeutic agents. The peptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Immunogenic; HLA-A3.2; HLA-A1; HLA-A11; binding motif; MHC molecule; immune response; viral infection; cancer; prostate cancer; lymphoma; hepatitis; AIDS; antibody; diagnosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The sequences given in AAR47304-33 and AAR49201-44 are immunogenic peptides which have a HiA-A12., HiA-A1 or a HiA-A11 binding motif. These peptides may be used in the composition of the invention. These peptides are capable of binding selected MHC molecules and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptide which specifically binds selected MHC allele - used to induce an immune response for treatment or prevention of viral
                                                                                                                                                                                                                                                                                      AAY38278 Length: 9 December 11, 2003 07:10 Type: P Check: 3252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HLA-All HPV18.E7 antigen peptide fragment 59-67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sette A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     infection or cancer, or for diagnosis
                                                                                                                                                                                                                        can also be used as diagnostic agents.
Disclosure; Page 111; 150pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 8; Page 51; 150pp; English.
                                                                                                                                                                                                                                                                                                                                                                       AAR47322 standard; Protein; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kubo RT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92US-0926666.
93US-0027746.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  (updated)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human papilloma virus 18
                                                                                                                                                                                                                                                                                                                                                                                                                                   (updated)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1994-065403/08.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Grey HM,
                                                                                                                                                                                                                                                         9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (CYTE-) CYTEL
                                                                                                                                                                                                                                                                                                                         HIMICMCCK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-AUG-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          J5-MAR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-AUG-1992;
                                                                                                                                                                                                                                                                                                                                                       ! AA_SEQUENCE 1.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                   14-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-FEB-1994
                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                    AAR47322;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Celis E,
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inducing an immune response. They can be used to treat and/or prevent viral infection and cancer, eg. prostate cancer, lymphoma, hepatitis or AIDS. They can also be used to produce antibodies for use as diagnostic or therapeutic agents. The peptides can also be

used as diagnostic agents. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 14-MAY-2003 to correct PS field.)

9 AA;

Seguence

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The peptides given in AARS5718-48 can each be conjugated through an amide linkage with a polyunsaturated fatty acid moiety, such as docosahexaenoic acid or elcosapentanoic acid, to improve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VIP; cell surface receptor; ligand; gene transfer; transfection;
                                                                                                                                                    Protein-Kinase inhibitor; fatty acyl-peptide; conjugate; antiproliferative; tumor; psoriasis; docosahexaenoic acid; DHA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Check: 3402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antiproliferative activity. The proline-dependent protein-kinase inhibitor given in ARS5743 modulates native protein-kinases associated with cell proliferation. (Updated on 25-WAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    for
                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                   proliferation - more active than free peptide, partic. treating tumours, virus-infected cells, psoriasis, etc
                                                                                                                                                                                                                                                                                                                                                                                                                                        New fatty acyl-peptide conjugates for inhibiting cell
                                                                                                                                                                                                                                                                                                                                                                         Keri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Type: P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bradykinin, forms part of gene transfer complex
                                                                                                                                                                                                                                                                                                                                                                        Horvath A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAR55743 Length: 9 December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                   (BIOS-) BIOSIGNAL KUTATO FEJLESZTO KFT (SYNT-) SYNTHETIC PEPTIDES INC.
                                                                                                                                                                              eicosapentaenoic acid; EPA; antitumor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure, Fig. 1, 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                        Balogh A, Cachia PJ, Hodges RS,
Szederkenyi F, Vadasz Z;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAR87095 standard; peptide; 9 AA
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                        !!AA_SEQUENCE 1.0
ID AAR55743 standard; peptide; 9
                                                                                                                                                                                                                                                                                                            92US-0984293.
                                                                                                                                                                                                                                                                                    93WO-HU00065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  06-JUN-1996 (first entry)
                                                                                     (updated)
(first entry)
                                                                                                                           Protein-kinase inhibitor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gene therapy, vaccine.
                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1994-200194/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 9 AA;
1 HIMLCMCCK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 RPPGFSFFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
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                                                                                                                                                                                                                                                                                  29-NOV-1993;
                                                                                                                                                                                                                                                                                                            30-NOV-1992;
                                                                                                                                                                                                                                 WO9412530-A1
                                                                                                                                                                                                                                                          09-JUN-1994.
                                                                                     25-MAR-2003
16-NOV-1994
                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAR87095;
                                                               AAR55743;
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useful as analgesics. The present sequence represents a specifically
                                                                                                      WPI; 1996-299898/30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           achiral; analgesic.
                                                                                                                                                                                                                                                                                                                                                                                                              9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAW45443 Length: 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Modified-site
                                                           Mitchell AR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mitchell AR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-SEP-1992;
07-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-JUL-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US5527882-A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAW45444;
    In novel complexes of negatively-charged nucleic acids and positively-charged polymers, the polymers comprise monomer subunits bearing with the polymers comprise monomer subunits bearing of the polymers comprise monomer subunits bearing of groups bearing a substill that has at least one -OH group and is not recognised by cell membrane receptors; the side-chain groups of the polymer (i.e. the NH3+ and/or OH groups) may be substd. by a group that is recognised by a cell membrane receptor, provided that at least 30% of the NH3+ groups remain free. The complexes are useful for transfecting particular nucleic acid sequences into particular cell types, depending on the identity of the cell membrane receptor ligands involved, e.g. for gene therapy or prepn. of vaccines. Preferred ligands are oligoglycoside antigans recognised to by lectins, natural metabolites (such as bioth, tetrahydrofolate, folic acid or carnitine) or peptides (pref. vasoactive intestinal).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   peptide, lipocortin, bradykinin, peptide chemotactic factors and integrin ligands)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N-benzylglycine; agonist; receptor study; antagonist;
                                                                                                                                                                                                                                              - useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Check: 3472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             note= "Optionally 4-hydroxy-L-proline"
                                                                                                                                                               Monsigny M, Roche-Degremont A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Type: P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'note= "Optionally D-form residue"
                                                                                                                                                                                                                                          New nucleic acid complexes with cationic polymers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bradykinin analogue containing N-benzylglycine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'note= "N-benzylglycine'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note= "D-form residue"
                                                                                                                       (IDMI-) IDM IMMUNO-DESIGNED MOLECULES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
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ID _AAW45443 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                 genetic transformation of cells.
                                                                                                                                                                                                                                                                                                          Claim 11; Page 44; 58pp; French
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            89US-0376839.
92US-0945664.
94US-0335202.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   peptide, atrial natriuretic
hormones such as alpha-MSH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      94US-0335202
                                                                                94FR-0005174
                                        94FR-0005174
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                                                                                                                                                               Midoux P,
                                                                                                                                                                                                      WPI; 1995-375617/49.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9 AA;
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16-SEP-1992;
07-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-NOV-1994;
                                        28-APR-1994;
                                                                                28-APR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-OCT-1998
                                                                                                                                                               Erbacher P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bradykinin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US5527882-A
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03-NOV-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to peptides related to bradykinin of four to ter amino acid residues wherein one or more specific amino acids in the peptide chain are replaced with the achiral N-benzylglycine. These analogues of the above type are either bradykinin agonists useful for comparison in laboratory receptor studies, or bradykinin antagonists useful as analgesics. The present sequence represents a specifically claimed bradykinin analogue.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Check: 3330
                                                                                                                                                                                                                   New bradykinin analogues contg. N-benzyl-glycine - useful as
bradykinin agonists or antagonists, useful e.g. as analgesics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New bradykinin analogues contg. N-benzyl-glycine - useful as
bradykinin agonists or antagonists, useful e.g. as analgesics
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                       Claim 3; Column 18; 15pp; English
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ID AAW45444 standard; peptide; 9 AA
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94US-0335202
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(REGC ) UNIV CALIFORNIA.
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                                                                             Young JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1996-299898/30.
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SXS

AAW45445

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The invention relates to peptides related to bradykinin of four to ten amino acid residues wherein one or more specific amino acids in the peptide chain are replaced with the achiral N-benzylgiycine. These analogues of the above type are either bradykinin agonists useful for comparison in laboratory receptor studies, or bradykinin antagonists useful as analgesics. The present sequence represents a specifically claimed bradykinin analogue.
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                  Bradykinin; N-benzylglycine; agonist; receptor study; antagonist; achiral; analgesic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New bradykinin analogues contg. N-benzyl-glycine - useful as
bradykinin agonists or antagonists, useful e.g. as analgesics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bradykinin analogue containing N-benzylglycine
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                                                                                                                                                                                                                                                     /note= "N-benzylglycine"
                                                                                                                                                                                                     'note= "N-benzylglycine"
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                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 9; Column 19; 15pp; English.
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AAW45447 standard; peptide; 9 AA.
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92US-0945664.
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92US-0945664.
94US-0335202.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Young JD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      achiral; analgesic
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Modified-site
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Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mitchell AR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-JUL-1989;
16-SEP-1992;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-JUL-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-SEP-1992;
07-NOV-1994;
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                                                                                                     Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAW45447;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HANGE TO SEE THE SEE T
The invention relates to peptides related to bradykinin of four to ten
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amino acid residues wherein one or more specific amino acids in the peptide chain are replaced with the achiral N-benzylglycine. These analogues of the above type are either bradykinin agonists useful for comparison in laboratory receptor studies, or bradykinin antagonists useful as analgesics. The present sequence represents a specifically
                                                                                                                                                                                                                                                                                                                                                                                                                                       Bradykinin, N-benzylglycine; agonist; receptor study; antagonist;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Check: 3338
                                                                                                       December 11, 2003 07:10 Type: P Check: 3410
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bradykinin agonists or antagonists, useful e.g. as analgesics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Type: P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "N-benzylglycine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'note= "N-benzylglycine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
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ID AAW45446 standard; peptide; 9 AA.
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94US-0335202
     claimed bradykinin analogue
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    achiral; analgesic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAW45445 Length: 9
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                                                       9 AA;
                                                                                                          AAW45444 Length: 9
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                                                                                                                                                             RPPGFSFGR
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07-NOV-1994;
                                                                                                                                                                                                             !! AA_SEQUENCE 1.0
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DXAXAXA

Type: P Check: 3337

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X S
                                                                                             The invention relates to peptides related to bradykinin of four to ter amino acid residues wherein one or more specific amino acids in the peptide chain are replaced with the achiral N-benzylglycine. These analogues of the above type are either bradykinin agonists useful for comparison in laboratory receptor studies, or bradykinin antagonists useful as analgesics. The present sequence represents a specifically claimed bradykinin analogue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to peptides related to bradykinin of four to ter amino acid residues wherein one or more specific amino acids in the peptide chain are replaced with the achiral N-benzylglycine. These analogues of the above type are either bradykinin agonists useful for comparison in laboratory receptor studies, or bradykinin antagonists useful as analgesics. The present sequence represents a specifically claimed bradykinin analogue.
                                                                                                                                                                                                                                                                                                                                                                                    N-benzylglycine; agonist; receptor study; antagonist;
                                                                                                                                                                                                                                               Check: 3409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New bradykinin analogues contg. N-benzyl-glycine - useful as bradykinin agonists or antagonists, useful e.g. as analgesics
                                                                                  New bradykinin analogues contg. N-benzyl-glycine - useful as bradykinin agonists or antagonists, useful e.g. as analgesics
                                                                                                                                                                                                                                               Type: P
                                                                                                                                                                                                                                                                                                                                                               Bradykinin analogue containing N-benzylglycine
                                                                                                                                                                                                                                              December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note= "N-benzylglycine"
                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                  Claim 15; Column 20; 15pp; English
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                                                                                                                                                                                                                                                                                                 AAW45438 standard; peptide; 9 AA
94US-0335202.
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                     (REGC ) UNIV CALIFORNIA
                                          Young JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mitchell AR, Young JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1996-299898/30,
                                                                                                                                                                                                                                                                                                                                                                                               achiral; analgesic.
                                                                                                                                                                                                                        9 A.A.;
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                                                                                                                                                                                                                                                                    RPPGFSGFR
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Modified-site
07-NOV-1994;
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07-NOV-1994;
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                                          Mitchell AR,
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                                                                                                                                                                                                                                                                                                                                                                                     Bradykinin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US5527882-A
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                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                          Sequence
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amino acid residues wherein one or more specific amino acids in the peptide chain are replaced with the achiral N-benzylgy/cine. These analogues of the above type are either bradykinin agonists useful for comparison in laboratory receptor studies, or bradykinin antagonists useful as analgesics. The present sequence represents a specifically claimed bradykinin analogue.
                                                                                                                                                                                                                                                                                                     Bradykinin; N-benzylglycine; agonist; receptor study; antagonist;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bradykinin; N-benzylglycine; agonist; receptor study; antagonist;
                                  Check: 3400
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New bradykinin analogues contg. N-benzyl-glycine - useful as bradykinin agonists or antagonists, useful e.g. as analgesics
                                    М
                                    Type:
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                                    December 11, 2003 07:10
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                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "N-benzylglycine"
                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 3; Column 18; 15pp; English
                                                                                                                  | | AA SEQUENCE 1.0
| ID AAW45439 standard; peptide; 9 AA.
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                                                                                                                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Young JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1996-299898/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         achiral; analgesic
                                                                                                                                                                                                                                                                                                                      achiral; analgesic
Sequence 9 AA;
                                    AAW45438 Length: 9
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                                                                            RPPGFGPFR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HAA_SEQUENCE 1.0
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/note= "N-benzylglycine"

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The invention relates to peptides related to bradykinin of four to ter amino acid residues wherein one or more specific amino acids in the peptide chain are replaced with the achiral N-benzylglycine. These analogues of the above type are either bradykinin agonists useful for comparison in laboratory receptor studies, or bradykinin antagonists useful as analgesics. The present sequence represents a specifically
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Generation of human cytotoxic T-cells specific for CEA - useful in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Carcinoembryonic; antigen; human; cytotoxic T cell; pox virus; vector; epitope; determination; screening; tumour; treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Peptide comprising residues 27-35 of Carcinoembryonic antigen.
                                                                                                                                                                                                                                                                                  New bradykinin analogues contg. N-benzyl-glycine - useful as
bradykinin agonists or antagonists, useful e.g. as analgesics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       therapy, epitope mapping and drug screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     THER-) THERION BIOLOGICS CORP. (USSH ) US DEPT HEALTH & HUMAN SERVICES.
                                                          /note= "N-benzylglycine"
         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                          Claim 3; Column 18; 15pp; English.
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ID _AAW00686 standard; peptide; 9 AA.
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92US-0945664.
94US-0335202.
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                                                                                                                                                                                                                                                                                                                                                                                                                          claimed bradykinin analogue.
                                                                                                                                    94US-0335202.
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                                                                                                                                                                                                             CALIFORNIA.
                                                                                                                                                                                                                                     Young JD;
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                                                                                                                                                                                                                                                            WPI; 1996-299898/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    9 AA;
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                        Modified-site
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                                                 Modified-site
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                                                                                                                                                                                                             (REGC ) UNIV
                                                                                                                                                                                                                                     Witchell AR,
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                                                                                                                                    07-NOV-1994;
                                                                                                                                                           07-JUL-1989;
16-SEP-1992;
                                                                                                                                                                                    37-NOV-1994;
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Type: P Check: 3408

December 11, 2003 07:10

Tsang

peptides related to bradykinin of four to ten

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Producing carcinoembryonic antigen (CEA) specific human cytotoxic T cells (CTC), comprises introducing a 1st pox virus vector, having at least 1 insertion site containing a DNA segment encoding a CEA peptide (i.e. the present peptide) to a host to stimulate CTC the present peptide) to a host to stimulate CTC production, and at least 1 periodic interval after that, contacting production, and at least 1 periodic interval after that, contacting the host with an additional antigen. The CEA specific CTC can be used to determine the CTC eliciting epitope of CEA, and to screen for compounds which enhance the ability of the antigen to create a crc response. A host with a CEA expressing tumour can be treated by introducing the CTC to the host, and at least 1 periodic interval after that introducing a CEA peptide, i.e. the present peptide. The present peptide is negative for binding to HLA-A2, and scored to peptide results in the upregulation of surface HLA-A2 on the T2 cells, which can be quantified via FACScan using an anti-HLA-A2 anti-HLA-A3 anti-HLA-A3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The sequences given in AARB8473-80 are internal tryptic peptides derived from trehalose-6-phosphate (Tre6P) synthase from M. smegmatis. Tre6P is the key enzyme in the synthesis of trehalose via Tre6P. The aim of the invention is to produce a transgent plant with increase trehalose content. Tre6P in M. smegmatis is heparin-activated and was isolated and purified. These peptides were derived from a protein which was purified. These peptides by which shared antigenic determinants with the yeast Tre6P synthase protein. Using these peptides probes may be designed for the isolation of the Tre6P gene (TSPI) for the production of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New transgenic plants with increase trehalose contents - prepd. by transforming plants with a trehalose-6-phosphate synthase gene fused
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          trônalose, transgenic plant, heparin-activated, preservation, food, antigenic determinant, yeast, TSP1, fruit, berry, puree, jelly, jam
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Welin B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tryptic peptide; trehalose-6-phosphate synthase; M. smegmatis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     December 11, 2003 07:10 Type: P Check: 3657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Internal tryptic peptide from Tre6P synthase (peak 29) #1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Holmstroem K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 6; Page 36; 55pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |!AA_SEQUENCE 1.0
|ID _AAR88475 standard; peptide; 9 AA.
                    Claim 4; Page 59; 76pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                to a non-constitutive promoter
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Mandal A, Palva E;
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(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9 AA;
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30-AUG-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
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13-AUG-1999 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                       Gera L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9 AA;
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Modified-site
                                                                                                                                                                                                                                                                                                             03-SEP-1996;
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                                                                                                                                                        Key
Cross-links
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                                                                                                                           Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                       Chan DC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAY22658-72 represent peptides used to make bradykinin antagonists of the formula BKA1-X-BKA2, where X is a linker and BKA1 and BKA2 are chosen form AAY22658-72, and BKA2 may be absent. Dimerisation of bradykinin antagonist peptides increases the potency and stability of the antagonists. The antagonists are used in methods for inhibiting lung cancer cell growth. It has been found that the antagonists induce apoptosis in the treated lung cancer cells. The bradykinin antagonists are used for treating cancer, especially small cell lung carcinoma. They are also useful in the treatment of other bradykinin-related conditions such as allergic reactions, arthritis, asthma, sepsis, viral rhinitis and inflammatory bowel disease.
            plants and used in bulk preparation including the preservation of the flavour and structure of food stuffs during drying. Fruits and berries form the transformed plants may be processed into purees, jellies and jams which have a fresher and richer flavour due to the increased trehalose content.
The trehalose may be isolated from the transgenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ģ
                                                                                                                                                                                                                                                                                                                                                         Bradykinin antagonist, lung cancer cell growth, apoptosis, cancer, allergic reaction, arthritis, asthma, sepsis, viral rhinitis, inflammatory bowel disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Use of bradykinin antagonists and neurokinin receptor antagonists inhibit lung cancer cell growth - also new bradykinin antagonist monomers and dimers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      December 11, 2003 07:10 Type: P Check: 3522
                                                                                                                                                      Type: P Check: 3704
                                                                                                                                                                                                                                                                                                                            Peptide used to create bradykinin antagonists.
                                                                                            (Updated on 25-MAR-2003 to correct PI field.)
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                                                                                                                                                      2003 07:10
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ID AAY22679 standard; peptide; 9 AA.
                                                                                                                                                                                                                 ||AA SEQUENCE 1.0
|ID AAY22658 standard; peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Page 33; 51pp; English.
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                                                                                                                                                      December 11,
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ransgenic plants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9 AA;
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                                                                                                                         9 AA;
                                                                                                                                                      AAR88475 Length: 9
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                                                                                                                                                                                     1 RVVVNNTSR
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                                                                                                                           Sequence
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                                                                                                                                                                                                                                                                 AAY22658;
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SKKE

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AAY22673-85 represent specific bradykinin antagonists of the formula BKA1-X-BKA2, where X is a linker and BKA1 and BKA2 and BKA2 and BKA2 and BKA2 and BKA2 antagonist peptides: Dimerization of bradykinin antagonist peptides increases the potency and stability of the antagonists. The antagonists are used in methods for inhibiting lung cancer cell growth. It has been found that the antagonists induce apoptosis in the treated lung cancer cells. The bradykinin antagonists are used for treating cancer, especially small cell lung carcinoma. They are also useful in the treatment of other bradykinin antagonists conditions such as allergic reactions, arthritis, asthma, sepsis, viral rhinitis and inflammatory bowel disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Use of bradykinin antagonists and neurokinin receptor antagonists to inhibit lung cancer cell growth - also new bradykinin antagonist monomers and dimers
                                                                 Bradykinin antagonist; lung cancer cell growth; apoptosis; cancer; allergic reaction; arthritis; asthma; sepsis; viral rhinitis; inflammatory bowel disease.
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                                                                                                                                                                                                                                                                                                                                                                                      /note= "links, via succinyl, to position 1 of
another copy of the same peptide to
form a dimer"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GHRH; growth hormone releasing hormone; analogue.
Peptide used to create bradykinin antagonists.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Whalley ET;
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                                                                                                                                                                                                                                                                                                            Location/Qualifiers
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ID AAW79626 standard; peptide; 9 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (UYTE-) UNIV TECHNOLOGY CORP.
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seq28-agen.res

Olsen OH

Johansen NL, Madsen K,

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thrombin-induced platelet; prevention; platelet aggregation;
                                                                                                                                                                                                                                                                     This sequence is a preferred example of a new group of generically described oligopeptides which are growth hormone releasing hormone analogues and mimetics. These oligopeptides stimulate release of growth hormone (GH) from the pituitary. They can be used in human and veterinary medicine, e.g. to stimulate GH release in the elderly, to prevent catabolic side effects of glucocorticoids, to prevent or treat osteoporosis, to stimulate the immune system, to accelerate wound, burn and bone fracture healing, to treat growth retardation of various kinds, and to increase rate and extent of growth, milk and wool production in animals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Administration of a peptide or multimer related to bradykinin or other disclosed peptides and multimers can be used for the inhibition of thrombin-induced platelets or other cells. They can also be used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Inhibition of platelet activation and aggregation - by admin. of new or known bradykinin analogues
                                                                                                                                                                                             Oligopeptide amide growth hormone releasing hormone mimetics - use for elderly patients, immunostimulation, wound, burn, and fracture healing, livestock, wool growth.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 39; 73pp; English.
                                                                                                                                                                                                                                                     Claim 41; Page 100; 108pp; English.
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ID AAW54325 standard; peptide; 9
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                                        97WO-DK00175
                                                                    96DK-0000468
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                                                                                                                         Hansen A,
Thogersen H;
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                                                                                                (NOVO ) NOVO-NORDISK AS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 activation
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                                           18-APR-1997;
                                                                                                                          Andersen PH,
Richter SL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Inhibition;
ADP-induced
                                                                      19-APR-1996;
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                30-0CT-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bradykinin.
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
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Type: P Check: 3435

Peptides AAW39430-W39734 are used in a novel method for the selection of immunogenic T-cell peptide epitopes present in polypeptide antigens. The method involves the identification of peptide sequences capable of binding to an HLA (human leukocyte antigen) class I molecule and measuring the binding of this epitope peptide to the HLA class I peptide. The stability of binding of the peptide and MHC (major histocompatability complex) class I molecule is measured on intact human B cells carrying the MHC molecule at their cell surfaces. The method can be used to select peptide epitopes for generating vaccines against a disease associated with the polypeptide, e.g. canders or AIDS. The peptide epitopes are especially T-cell peptide epitopes with strong rati-tumour and anti-viral immune responses. Peptide AAW39724 is derived from the human carcino-embryonic antigen (CEA) and has the ability to bind to the human MHC Class I allele HLA-A*0301. T cell epitope; immune response; human leukocyte antigen; HLA Class I; vaccine; immunogenic; major histocompatablilty complex; MHC; B cell; disease; anti-tumour; anti-viral. preventing platelet aggregation, or inhibiting ADP-induced activation. This is useful to prevent arterial occlusions arising from coronary thrombosis and stroke. Method of selecting T cell peptide epitope(s) - by measuring the stability of HLA class I-peptide complexes on intact B cells Van Der Burg SH; December 11, 2003 07:10 Type: P Check: 3657 Check: 3472 Human carcina-embryonic antigen (CEA) peptide (pos. 27-35). Type: P Offringa R, Toes REM, December 11, 2003 07:10 (VYLE-) RIJKSUNIV LEIDEN. (SCIS-) SCI SEED CAPITAL INVESTMENTS BV. Example 3; Page 85; 109pp; English. !!AA SEQUENCE 1.0 ID TAAW45657 standard; peptide; 9 AA. !!AA_SEQUENCE 1.0 ID —AAW39724 standard; peptide; 9 AA. 97WO-NL00229 96EP-0203670. 09-JUN-1998 (first entry) 11-JUN-1998 (first entry) Kast WM, Melief CJM, WPI; 1997-549891/50 AAW39724 Length: 9 AAW54325 Length: 9 9 AA; HLPGYSWYK 1 RPPGFSPFR 8-APR-1997; 23-DEC-1996; 26-APR-1996; Homo sapiens WO9741440-A1 06-NOV-1997. AAW45657; AAW39724; Sequence Sequence HXXXH 8 X G G G

HBV ade X 1548 peptide with binding affinity for HLA-A3-like molecules

HLA molecule; cytotoxic T cell; immunogenic peptide; binding affinity; HLA-A3 supermotif; tumour; infection; parasite; CTL; antigen; HIV pol; HBV; hepatitis b virus.

Synthetic. Hepatitis b virus.

WO9733602-A1

L8-SEP-1997

97WO-US03778 10-MAR-1997; 96US-0013113. 11-MAR-1996;

CORP (CYTE-) CYTEL Sidney J; Sette A, Chestnut RW,

WPI; 1997-470637/43.

Inducing cytotoxic T cell response against specific antigen - using immunogenic peptide with binding affinity for HLA-A3-like molecules, to treat or prevent tumours and infections by virus, parasites etc

Example 1; Page 36; 79pp; English.

This sequence represents an immunogenic peptide with binding affinity for HLA-A3-like molecules. A cytotoxic T cell (CTL) response against a particular antigen (Ag) is induced in a patient by contacting a CTL with an immunogenic peptide of 9-15 amino acids which binds to at least two HLA-A3-like molecules with dissociation constant less than 500 mM and induces a cytotoxic T cell response. The immunogenic peptide has a sequence of 9 amino acids, comprising a binding motif, with from the N-to C-termini: primary anchor sites (PAR) at positions 2 (selected from Ala, Leu, Ile, Val, Met, Ser or Thr) and 9 (Arg or Lys) and at least one secondary anchor sites (SAR). i.e. Tyr, Phe or Tyr at positions 3, 6 or 7, and/or Pro at position 8. The immunogenic peptides are used in peptide based vaccines and therapeutic compositions, for treating viral, based vaccines and therapeutic compositions, for treating viral, barasitic or fungal diseases or cancer, e.g. prostatic cancer, hepatitis B or C, renal or cervical carcinoma, lymphoma, cytomegalovirus infection or condyloma acuminatum. They can also be used to elicit a CTL response the nation has been accounted to the patient, e.g. where the patient does not respond to peptide vaccines or other therapies. Selection of specific residues for PAR and SAR results in higher binding affinity and thus increased immunogenicity.

Sequence 9 AA;

December 11, 2003 07:10 Type: P Check: 3378 AAW45657 Length: 9

KVFVLGGCR

Ä.

VEGF/VPF antigen sequence KPSCVPLMR.

Vascular endothelial cell growth factor; VEGF; VPF; antigen; vascular permeability factor; anti-VEGF; monoclonal antibody; cancer.

AAW23801 Length: 9 December 11, 2003 07:10 Type: P Check: 3548 KPSCVPLMR

9 AA;

Sequence

Human vascular endothelial cell growth factor-vascular permeability factor antigen - and monoclonal antibody against it, useful for diagnosis and treatment of cancer

(TOAG) TOA GOSEI CHEM IND LID.

WPI; 1997-316574/29.

95JP-0308184 95JP-0308184

01-NOV-1995;

01-NOV-1995;

Claim 1; Page 6; 8pp; Japanese.

AAW04607 standard; peptide; 9 AA. !!AA_SEQUENCE 1.0

AAW04607;

(first entry) 13-AUG-1997 Bradykinin fragment for mass spectrometry analysis.

Mass spectrometry; polymer analysis; biopolymer analysis.

Synthetic.

409636986-A1

21-NOV-1996.

96WO-US07146. 17-MAY-1996;

95US-0447175. 19-MAY-1995;

95US-0446055.

(PERS-) PERSEPTIVE BIOSYSTEMS INC.

Patterson DH, Tarr GE;

WPI; 1997-012308/01

Sequencing polymers, e.g. DNA, RNA, peptide nucleic acids, proteins, etc. - by obtaining mass to charge ratios of polymer fragments, pref. using mass spectrometer, and performing statistical analysis

Example 2; Page 32; 86pp; English.

A method of obtaining sequence information about a polymer (e.g. DNA, RNA, peptide nucleic acids, proteins, peptides and carbohydrates) comprising monomers of known mass has been claimed. The present sequence represents a fragment of bradykinin, and was used as an example as a digestion before analysis by mass spectrometry, using this novel on-plate strategy. Total sequence information from a nine well digestion can be represented in a single digestion or

30-APR-1999 (first entry)

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A new method is disclosed for inhibiting thrombin-induced platelet
or other cell activation. The method comprises administering a compound
comprising at least 1 segment with the amino acid sequence of formula
X1-Arg-Pro-Pro-X2 or L-(X1-Arg-Pro-Pro-X2)n, where X1 = a sequence of
0-30 natural or synthetic amino acids; X2 = a sequence of 0-30 natural
cor synthetic amino acids provided that the N-terminal is not Gly;
cor synthetic amino acids provided that the N-terminal is not Gly;
cor synthetic amino acids provided that the N-terminal is not Gly;
cor synthetic amino acids provided that the N-terminal is not Gly;
correctly in vivo. Also claimed are: (1) a pharmaceutical composition
cused in the method above, and (2) a method for identifying compounds that
selectively inhibit thrombin-induced platelet and other cell activation,
by measuring the ability of the compound to bind to the thrombin cleavage
site on the thrombin receptor.
it is often derived from two or more wells. The methods, apparatus and
                kit (claimed) can be used for the analysis of polymers, particularly biopolymers, e.g. DAA, RNA, peptide nucleic acids, proteins, peptides and carbohydrates. It provides a rapid, automated and cost effective sequencing of polymers, with a statistical certainty.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Inhibition of thrombin-induced platelet or other cell activation comprises administering compound with amino acid segments of specific sequences, used for preparation of therapeutics
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                                                                                                                                       Check: 3472
                                                                                                                                                                                                                                                                                                                                                                Bradykinin; BK; thrombin induced platelet activation;
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                                                                                                                                       Type:
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                                                                                                                                       December 11, 2003 07:10
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                                                                                                                                                                                                                                                                                               (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                    inhibitor
                                                                                                                                                                                                                                                                                                                                 Bradykinin sequence
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                                                                                                                                                                                                                                                                                                                                                                                     aggregation
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This invention describes an immunoassay method where a sample with a specific binding entity (e.g. a monoclonal antibody) reactive to human inducible nitric oxide synthase (iNOS) or mimicso if this protein is used to detect the presence of human iNOS protein in the sample. The method can be used for the detection and quantitation of human iNOS in cells and tissues for various pathophysiological conditions such as sepsis, septic shock, myocardial infarction, rejection of tissue in organs following transplantation, monitoring "flare ups" in certain autoimmune diseases such as lupus, psoriasis, and multiple sclerosis. This sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Inducible; nitric oxide synthase; iNOS; human; immunoassay; detection; monoclonal antibody; mimic; quantitation; sepsis; septic shock; lupus; myocardial infarction; tissue rejection; transplantation; psoriasis; autoimmune disease; multiple sclerosis; epitope mapping.
                                                       Inducible, nitric oxide synthase; iNOS; human; immunoassay; detection; monoclonal antibody; mimic; quantitation; sepsis; septic shock; lupus; myocardial infarction; tissue rejection; transplantation; psoriasis; autoimmune disease; multiple sclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Detection of human inducible nitric oxide synthase - using an immunoassay in which a sample is contacted with a specific binding entity reactive with human iNOS or mimics.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human iNOS peptide fragment for epitope mapping #39.
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                                                                                                                                                                                                     /note= "Arg residue amidated"
                             Human iNOS peptide fragment PS-5289.
                                                                                                                                                                    Location/Qualifiers
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(first entry)
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Modified-site
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30-APR-1999
                                                                                                                                          Homo sapiens
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WO9845710-A1

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Peptide determined by the method of the invention.
                                                                                                                                                                                                                                                                       (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
                                                                                                                                                                         AAW87445 standard; peptide; 9 AA.
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                                            WPI; 1998-594495/50.
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                                                                                                                                          9 AA;
                          (WEBB/) WEBBER
                                                                                                                                                            RMTLVFGSR
                                                                                                                                                                                                                                                              22-MAY-1997;
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        11-APR-1997;
                 07-APR-1997;
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                                                                                                                                                                                                                                                                                Parekh RB,
                                                                                                                                                                                                                          Synthetic.
                                                                                                                                           Sequence
                                                                                                                                                                                  AAW87445;
                                   Webber
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This invention describes an immunoassay method where a sample with a specific binding entity (e.g. a monoclonal antibody) reactive to human inducible nitric oxide synthase (iNOS) or mimics of this protein is used to detect the presence of human iNOS protein in the sample. The method can be used for the detection and quantitation of human iNOS in cells and tissues for various pathophysiological conditions such as sepsis, septic shock, myocardial infarction, rejection of tissue in organs following transplantation, monitoring "flare ups" in certain autoimmune diseases such as lupus, psoriasis, and multiple sclerosis. This sequence represents a peptide from human iNOS which is used in the method of the Detection of human inducible nitric oxide synthase - using an immunoassay in which a sample is contacted with a specific binding entity reactive with human iNOS or mimics. (Updated on 25-MAR-2003 to correct PR field.) Example 4; Fig 7D; 93pp; English 97WO-US06500. 97US-0833506. 15-OCT-1998

December 11, 2003 07:10 Type: P Check: 3541

Amino acid determination; molecular mass; fragmentation spectrum; DNA cloning; anti-body; recombinant; modification; mass spectrometry.

Wedd NS; Townsend RR,

The invention relates to a method for determination of the amino acid sequence of an unknown peptide. The method comprises (a) determining the molecular mass and an experimental fragmentation spectrum for the peptide; (b) comparing the experimental fragmentation spectrum for the unknown peptide with a theoretical fragmentation spectrum of the unknown peptide with a theoretical fragmentation spectra calculated for a peptide library composed of all possible librar squences of amino a cids having a total mass that corresponds to the molecular mass of the unknown peptide; and (c) identifying a peptide in the library with a tragmentation spectrum that most closely matches the fragmentation spectrum of the unknown peptide. The method is useful in DNA cloning, anti-body production, identification of recombinant or products, and the study of post-translational modifications. It allows the sequence of unknown peptides or proteins with no sub-sequence identity, to be characterised using mass spectrometry. The present sequence identity a linear peptide from a library constructed to

Peptide sequence determination used in e.g. DNA cloning - by comparing mass spectra of the unknown peptide with a library of

linear chain known peptide sequences

WPI; 1998-571195/49.

Example 3; Page 25; 40pp; English.

Peptide sequence determination used in e.g. DNA cloning - by comparing mass spectra of the unknown peptide with a library of linear chain known peptide sequences

Example 3; Page 25; 40pp; English.

The invention relates to a method for determination of the amino acid sequence of an unknown peptide. The method comprises (a) determining

exemplify the method

Sequence

peptide; (b) comparing the experimental fragmentation spectrum of the unknown peptide with a theoretical fragmentation spectra calculated for a peptide library composed of all possible linear sequences of amino acids having a total mass that corresponds to the molecular mass of the unknown peptide; and (c) identifying a peptide in the library with a theoretical fragmentation spectrum that most closely matches the fragmentation spectrum of the unknown peptide. The method is useful in DNA cloning, anti-body production, identification of recombinant products, and the study of post-translational modifications. It allows the sequence of unknown peptides or protectins with no sub-sequence identity, to be characterised using mass spectrometry. The present sequence represents a linear peptide from a library constructed to molecular mass and an experimental fragmentation spectrum for the Amino acid determination; molecular mass; fragmentation spectrum; DNA cloning; anti-body; recombinant; modification; mass spectrometry. AAW87445 Length: 9 December 11, 2003 07:10 Type: P Check: 3476 Peptide determined by the method of the invention Townsend RR, Wedd NS; (OXFO-) OXFORD GLYCOSCIENCES UK LTD !!AA_SEQUENCE 1.0 ID AAW87446 standard; peptide; 9 AA. 97GB-0010582, (first entry) Prime SB, exemplify the method 9 AA; 1 RPPFGPSFR 22-MAY-1997; 22-MAY-1998; 09-FEB-1999 3B2325465-A 25-NOV-1998 Parekh RB, Seguence Synthetic. AAW87446; Synthetic.

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sequence of an unknown peptide. The method comprises (a) determining the molecular mass and an experimental fragmentation spectrum for the molecular mass and an experimental fragmentation spectrum for the unknown peptide with a theoretical fragmentation spectrum of the unknown peptide with a theoretical fragmentation spectrum of the acid possible linear sequences of amino a copide having a total mass that corresponds to the molecular mass of the unknown peptide, and (d) identifying a peptide in the library with a theoretical fragmentation spectrum that most closely matches the fragmentation spectrum of the unknown peptide. The method is useful in DNA cloning, anti-body production, identification of recombinant products, and the study of post-translational modifications. It allows the sequence of unknown peptides or proteins with no sub-sequence identity, to be characterised using mass spectrometry. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a method for determination of the amino acid
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                                                                                                                                                                                                                                  Amino acid determination; molecular mass; fragmentation spectrum; DNA cloning; anti-body; recombinant; modification; mass spectrometry.
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Check: 3498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Peptide sequence determination used in e.g. DNA cloning - by comparing mass spectra of the unknown peptide with a library linear chain known peptide sequences
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Type: P
                                                                                                                                                                                                Peptide determined by the method of the invention.
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December 11, 2003 07:10
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| D AAW87447 standard; peptide; 9 AA.
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AAW87446 Length: 9
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                                                                                                                                                                                                                                                                                      Synthetic.
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sequence of an unknown peptide. The method comprises (a) determining the molecular mass and an experimental fragmentation spectrum for the peptide, (b) comparing the experimental fragmentation spectrum of the unknown peptide with a theoretical fragmentation spectra calculated for
                                                                                                                                                                                                                                                                                                                                                                                                                                           a peptide library composed of all possible linear sequences of amino acids having a total mass that corresponds to the molecular mass of the unknown peptide, and (c) identifying a peptide in the library with a theoretical fragmentation spectrum that most closely matches the fragmentation spectrum thinknown peptide. The method is useful in DNA clouing, anti-body production, identification of recombinant products, and the study of post-translational modifications. It allows
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Amino acid determination, molecular mass, fragmentation spectrum; DNA cloning; anti-body; recombinant; modification; mass spectrometry.
                                                                                                                                                                                                                                                                                                                                                                 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the sequence of unknown peptides or proteins with no sub-sequence didentity, to be characterised using mass spectrometry. The present sequence represents a linear peptide from a library constructed to exemplify the method.
                                                                                                                                                                                                                                                                  Peptide sequence determination used in e.g. DNA cloning - by comparing mass spectra of the unknown peptide with a library of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptide determined by the method of the invention.
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                                                                                                                                                                                                                                                                                                   linear chain known peptide sequences
                                                                                                                                                                                                       Townsend RR,
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ID AAW87449 standard; peptide; 9 AA.
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                                                                            25-NOV-1998
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                                                                                                                                                                                                       Parekh RB,
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WPI; 1998-571195/49

exemplify the method.

The invention relates to a method for determination of the amino acid sequence of an unknown peptide. The method comprises (a) determining the molecular mass and an experimental fragmentation spectrum for the peptide; (b) comparing the experimental fragmentation spectrum of the unknown peptide with a theoretical fragmentation spectrum of the unknown peptide with a theoretical fragmentation spectrum of the cards having a total mass that corresponds to the molecular mass of the unknown peptide; and (c) identifying a peptide in the library with a theoretical fragmentation spectrum that most closely matches the crasmentation spectrum of the unknown peptide. The method is useful in DNA cloning, anti-body production, identification of recombinant products, and the study of post-translational modifications. It allows the sequence of unknown peptides or proteins with no sub-sequence identity, to be characterised using mass spectrometry. The present sequence represents a linear peptide from a library constructed to Peptide sequence determination used in e.g. DNA cloning - by comparing mass spectra of the unknown peptide with a library of linear chain known peptide sequences Example 3; Page 25; 40pp; English

December 11, 2003 07:10 AAW87449 Length: 9 9 AA; RPFGPPSFR Sequence

Check: 3495

Type: P

_AAW87450 standard; peptide; 9 AA. 09-FEB-1999 SEQUENCE 1.0 AAW87450;

Peptide determined by the method of the invention. (first entry)

Amino acid determination; molecular mass; fragmentation spectrum; DNA cloning; anti-body; recombinant; modification; mass spectrometry.

Synthetic.

3B2325465-A

25-NOV-1998

98GB-0011196 22-MAY-1998; 97GB-0010582 22-MAY-1997; Wedd NS Townsend RR, Prime SB, Parekh RB,

(OXFO-) OXFORD GLYCOSCIENCES UK LTD.

WPI; 1998-571195/49.

Peptide seguence determination used in e.g. DNA cloning - by comparing mass spectra of the unknown peptide with a library of linear chain known peptide seguences

Example 3; Page 25; 40pp; English.

The invention relates to a method for determination of the amino acid sequence of an unknown peptide. The method comprises (a) determining the molecular mass and an experimental fragmentation spectrum for the peptide; (b) comparing the experimental fragmentation spectrum of the unknown peptide with a theoretical fragmentation spectra calculated for a peptide library composed of all possible linear sequences of amino acids having a total mass that corresponds to the molecular mass of the unknown peptide; and (c) identifying a peptide in the library with a theoretical fragmentation spectrum that most closely matches the

DNA cloning, anti-body production, identification of recombinant products, and the study of post-translational modifications. It allows the sequence of unknown peptides or proteins with no sub-sequence identity, to be characterised using mass spectrometry. The present sequence represents a linear peptide from a library constructed to exemplify the method. fragmentation spectrum of the unknown peptide. The method is useful in 88888888

9 AA; Sequence Check: 3452 AAW87450 Length: 9 December 11, 2003 07:10 Type: P

RPPGPSFFR

| | AA SEQUENCE 1.0 | AAW87451 standard; peptide; 9 AA

AAW87451;

(first entry) 09-FEB-1999

Peptide determined by the method of the invention.

Amino acid determination; molecular mass; fragmentation spectrum; DNA cloning; anti-body; recombinant; modification; mass spectrometry.

Synthetic.

3B2325465-A

25-NOV-1998

98GB-0011196. 22-MAY-1998;

22-MAY-1997;

(OXFO-) OXFORD GLYCOSCIENCES UK LTD. 97GB-0010582,

Wedd NS; Townsend RR, Parekh RB, Prime SB,

WPI; 1998-571195/49.

Peptide sequence determination used in e.g. DNA cloning - by comparing mass spectra of the unknown peptide with a library of linear chain known peptide sequences

Example 3; Page 25; 40pp; English

sequence of an unknown peptide. The method comprises (a) determining the molecular mass and an experimental fragmentation spectrum for the peptide, (b) comparing the experimental fragmentation spectrum of the unknown peptide with a theoretical fragmentation spectra calculated for a peptide library composed of all possible linear sequences of amino acids having a total mass that corresponds to the molecular mass of the unknown peptide, and (c) identifying a peptide in the library with a theoretical fragmentation spectrum that most closely matches the fragmentation spectrum of the unknown peptide. The method is useful in DNA cloning, anti-body production, identification of recombinant products, and the study of post-translational modifications. It allows The invention relates to a method for determination of the amino acid the sequence of unknown peptides or proteins with no sub-sequence identity, to be characterised using mass spectrometry. The present sequence represents a linear peptide from a library constructed to exemplify the method.

9 AA; Sequence December 11, 2003 07:10 Type: P Check: 3493 AAW87451 Length: 9

!!AA_SEQUENCE 1.0 ID AAW87452 standard; peptide; 9 AA.

(first entry)

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Peptide determined by the method of the invention.
    09-FEB-1999
 AAW87452;
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The invention relates to a method for determination of the amino acid sequence of an unknown peptide. The method comprises (a) determining the molecular mass and an experimental fragmentation spectrum for the peptide, (b) comparing the experimental fragmentation spectrum for the unknown peptide with a theoretical fragmentation spectra calculated for a peptide library composed of all possible linear sequences of amino a cotal mass that corresponds to the molecular mass of the unknown peptide, and (c) identifying a peptide in the library with a theoretical fragmentation spectrum that most closely matches the incontrol in spectrum of the unknown peptide. The method is useful in DNA cloning, anti-body production, identification of recombinant products, and the study of post-translational modifications. It allows the sequence of unknown peptides or proteins with no sub-sequence of unknown peptides or proteins with no sub-sequence contacterised using mass spectrometry. The present sequence represents a linear peptide from a library constructed to exemplify the method. Amino acid determination; molecular mass; fragmentation spectrum; DNA cloning; anti-body; recombinant; modification; mass spectrometry. Peptide sequence determination used in e.g. DNA cloning - by comparing mass spectra of the unknown peptide with a library of linear chain known peptide sequences Check: 3511 Wedd NS; Townsend RR, (OXFO-) OXFORD GLYCOSCIENCES UK LTD. Example 3; Page 25; 40pp; English 98GB-0011196 97GB-0010582 Prime SB, WPI; 1998-571195/49. 9 AA; 22-MAY-1998; 22-MAY-1997; 3B2325465-A 25-NOV-1998 Parekh RB, Synthetic. Sequence

December 11, 2003 07:10 Type: P AAW87452 Length: 9

1 RFGPPSPFR

!!AA_SEQUENCE 1.0 ID AAW87453 standard; peptide; 9 AA.

AAW87453;

09-FEB-1999 (first entry)

Peptide determined by the method of the invention.

Amino acid determination; molecular mass; fragmentation spectrum; DNA cloning; anti-body; recombinant; modification; mass spectrometry

Synthetic

GB2325465-A

25-NOV-1998

98GB-0011196 22-MAY-1998; 97GB-0010582 22-MAY-1997; UK LTD. (OXFO-) OXFORD GLYCOSCIENCES Wedd NS; Townsend RR, Prime SB, Parekh RB,

VPI; 1998-571195/49

Peptide sequence determination used in e.g. DNA cloning - by comparing mass spectra of the unknown peptide with a library of linear chain known peptide sequences

Example 3; Page 25, 40pp; English.

The invention relates to a method for determination of the amino acid sequence of an unknown peptide. The method comprises (a) determining the must and an experimental fragmentation spectrum for the peptide; (b) comparing the experimental fragmentation spectrum of the unknown peptide with a theoretical fragmentation spectrum of the unknown peptide inharary composed of all possible linear sequences of amino a peptide library composed of all possible linear sequences of amino a control of a total mass that corresponds to the molecular mass of the unknown peptide; and (c) identifying a peptide in the library with a theoretical fragmentation spectrum of the unknown peptide. The method is useful in DNA cloning, anti-body production, identification of recombinant products, and the study of bost-translational modifications. It allows the sequence of unknown peptides or proteins with no sub-sequence identity, to be characterised using mass spectrometry. The present sequence represents a linear peptide from a library constructed to exemplify the method.

9 AA;

AAW87453 Length: 9 December 11, 2003 07:10 Type: P Check: 3475

1 RPPGFPSFR

11AA SEQUENCE 1.0 ID AAW87454 standard; peptide; 9 AA.

AAW87454;

09-FEB-1999 (first entry)

Peptide determined by the method of the invention.

Amino acid determination; molecular mass; fragmentation spectrum; DNA cloning; anti-body; recombinant; modification; mass spectrometry.

synthetic.

GB2325465-A.

35-NOV-1998.

98GB-0011196 22-MAY-1998; 97GB-0010582. 22-MAY-1997; (OXFO-) OXFORD GLYCOSCIENCES UK LTD.

Townsend RR, Wedd NS; Parekh RB, Prime SB,

WPI; 1998-571195/49.

Peptide sequence determination used in e.g. DNA cloning - by comparing mass spectra of the unknown peptide with a library of comparing mass spectra of the unknown linear chain known peptide sequences

Example 3; Page 25; 40pp; English

the molecular mass and an experimental fragmentation spectrum for the molecular mass and an experimental fragmentation spectrum for the peptide, (b) comparing the experimental fragmentation spectrum for the unknown peptide with a theoretical fragmentation spectrum of the appride library composed of all possible linear sequences of amino a cide having a total mass that corresponds to the molecular mass of the unknown peptide, and (c) identifying a peptide in the library with a theoretical fragmentation spectrum that most closely matches the fragmentation spectrum of the unknown peptide. The method is useful in DNA cloning, anti-body production, identification of recombinant products, and the study of post-translational modifications. It allows the sequence of unknown peptides or proteins with no sub-sequence identity, to be characterised using mass spectrometry. The present sequence represents a linear peptide from a library constructed to The invention relates to a method for determination of the amino acid exemplify the method. Sequence 9 AA;

December 11, 2003 07:10 Type: P Check: 3472 AAW87454 Length: 9

RPPGFSPFR Н

SEQUENCE 1.0 AAW87376 standard; peptide; 9 AA.

AAW87376;

09-FEB-1999 (first entry)

Peptide Z determined by the method of the invention.

Amino acid determination; molecular mass; fragmentation spectrum; DNA cloning; anti-body; recombinant; modification; mass spectrometry.

Synthetic.

GB23.25465-A.

25-NOV-1998.

98GB-0011196. 22-MAY-1998;

97GB-0010582 22-MAY-1997;

UK LTD (OXFO-) OXFORD GLYCOSCIENCES Wedd NS; Townsend RR, Prime SB, RB, Parekh

WPI; 1998-571195/49.

Peptide sequence determination used in e.g. DNA cloning - by comparing mass spectra of the unknown peptide with a library of linear chain known peptide sequences

Example 3; Page 23; 40pp; English.

The invention relates to a method for determination of the amino acid sequence of an unknown peptide. The method comprises (a) determining the molecular mass and an experimental fragmentation spectrum for the peptide, (b) comparing the experimental fragmentation spectrum of the unknown peptide with a theoretical fragmentation spectrum of the acptide library composed of all possible linear sequences of amino a cital mass that corresponds to the molecular mass of the unknown peptide, and (c) identifying a peptide in the library with a theoretical fragmentation spectrum that most closely matches the fragmentation spectrum of the unknown peptide. The method is useful in products, and the study of post-translational modifications. It allows the sequence of unknown peptides or proteins with no sub-sequence identity, to be characterised using mass spectrometry. The present sequence contains a known, standard peptide and is used to exemplify the method.

Dengue virus type-2 glycoprotein NS1; dengue haemorrhagic fever; DHF; dengue shock syndrome; DSS; Aedes aegypti; mosquito; antigen; vaccine; immunoreactive; infection. Dengue virus type-2 glycoprotein NS1 peptide for epitope mapping #65. Dengue virus peptide antigens - especially for diagnosis of dengue virus infection Check: 3472 Type: P December 11, 2003 07:10 (GENE-) GENELABS DIAGNOSTICS PTE LTD. Example 1; Column 17; 21pp; English. !!AA_SEQUENCE 1.0 ID AAW72520 standard; peptide; 9 AA. 94US-0290268 94US-0290268 (first entry) WPI; 1998-582552/49. AAW87376 Length: 9 Guan M; Sequence 9 AA; RPPGFSPFR 15-AUG-1994; 15-AUG-1994; Dengue virus 23-DEC-1998 JS5824506-A. 20-OCT-1998. AAW72520; Chan L, XX SS

AMW72456 to AAW72570 represent peptide fragments from the dengue virus type-2 glycoprotein NS1, which was used in an example from the present invention for an epitope mapping assay. The invention has developed peptide antigens consisting of fragments of the dengue virus NS1 protein. The peptide antigens can be used for the diagnosis of dengue virus infection by detection of antibodies to the virus, especially in an assay comprising attending the antigen to a solid support, contacting a serum sample with the support, and detecting bound antibodies with a liabelled anti-human antibody or used for preparing vaccines against Check: 3551 AAW72520 Length: 9 December 11, 2003 07:10 Type: P AAW80241 standard; Peptide; 9 AA. (first entry) dengue virus infection 9 AA; RSCTLPPLR !!AA_SEQUENCE 1.0 06-JAN-1999 AAW80241; Sequence

Wild type active site sequence of the beta-lactamase gene in pBR322. plasmid pBR322; tetracycline resistance gene; TetR; Escherichia coli; active site; beta-lactamase gene.

Synthetic.

US5824469-A

(UNIM) UNIV WASHINGTON

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The present sequence represent the wild type active site sequence of the beta-lactamase gene in pBR322. Substitutions were made in this region, and seven new carbenicillin resistant mutants were identified, from a screening of tetracycline resistant mutants. The carbenicillin resistant sequences were produced to exemplify the invention. The specification describes a method for obtaining an oligonucleotide that confers a predetermined biological function, such as regulation of expression or a biological activity of a polypeptide, on a cell. The method comprises cloning a heterogeneous pool of oligonucleotides into an expression vector, where the clones oligonucleotides are transcribed or act as regulatory sequences, introducing a random sample of the cloned or act as regulatory sequences, introducing a random sample of the cloned or oligonucleotides into a population of cells that do not exhibit the predetermined biological function, selecting a subpopulation of cells exhibiting the predetermined biological function, and isolating an cligonucleotide that confers this function from the selected subpopulation of cells. The process is used, for example, for identifying new forms of the Escherichia coli tetracycline resistance gene promoter and the active site of the beta-lactamase gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAW80241 Length: 9 December 11, 2003 07:10 Type: P Check: 3476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Active site sequence of the beta-lactamase gene in mutant #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     plasmid pBR322; tetracycline resistance gene; TetR; mutant; Escherichia coli; active site; beta-lactamase gene.
                                                                                                                                                                                                                                                                                                     Identification of biologically active DNA sequences - by transforming cells with random oligo-nucleotide(s)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAW80245 standard; Peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                        Example 8; Fig 6; 24pp; English
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86US-0887070.
92US-0881607.
93US-0105108.
94US-0316415.
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92US-0881607.
93US-0105108.
94US-0316415.
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                                                 94US-0316415.
                                                                                 89US-0368674
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                                                                                                                                                                                    WASHINGTON.
                                                                                                                                                                                                                     Loeb LA:
                                                                                                                                                                                                                                                   WPI; 1998-582545/49.
                                                                                                                                                                                                                                                                       N-PSDB; AAV66440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 9 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-JUL-1986;
12-MAY-1992;
11-AUG-1993;
30-SEP-1994;
                                               30-SEP-1994;
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                                                                                                                                                  30-SEP-1994;
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                                                                                 19-JUN-1989
                                                                                                               L2-MAY-1992
                                                                                                 7-JUL-1986
                                                                                                                                  1-AUG-1993
                                                                                                                                                                                                                     Horwitz MS,
                 20-OCT-1998
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from a screening of tetracycline resistant mutants. The sequences are mutant active site sequences of the beta-lactamase gene, derived from plasmid pBR322. The carbenicillin resistant sequences were produced
                                                                                                                                                                                                                                                                                                                                 to examplify the invention. The specification describes a method for obtaining an oligomucleotide that confers a predetermined biological function, such as regulation of expression or a biological activity of a polypeptide, on a cell. The method comprises cloning a heterogeneous pool of oligomucleotides into an expression vector, where the clones oligomucleotides are transcribed or act as regulatory sequences, introducing a random sample of the cloned oligomucleotides into a population of cells that do not exhibit the predetermined biological function, selecting a subpopulation of cells exhibit that predetermined biological predetermined biological function; and isolating an oligomucleotide that confers this function from the selected subpopulation of cells. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Vascular endothelial growth factor; VBGF; vascular permeability factor; VPF; inhibition; malignant tumour; benign tumour; liver cirrhosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         process is used, for example, for identifying new forms of the
Escherichia coli tetracycline resistance gene promoter and the active
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Amino acid sequence of a vascular endothelial growth factor/vascular permeability factor (VEGF/VPF) peptide used in the method of the invention as an inhibitory agent. The inhibitory agent is used for
                                                                                                                                                                                                                                                         AAW80243-49 represent new carbenicillin resistant mutants identified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       An inhibitory agent for the re-retention of body fluid - useful for treating this side-effect of associated disease states
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAW80245 Length: 9 December 11, 2003 07:10 Type: P Check: 3432
                                                                                                                                                       Identification of biologically active DNA sequences transforming cells with random oligo-nucleotide(s)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Amino acid sequence of the VEGF/VPF peptide 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              !!AA_SEQUENCE 1.0
ID _AAW74626 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Escherichia coli tetracycline ressite of the beta-lactamase gene.
                                                                                                                                                                                                                   Example 8; Fig 6; 24pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    inflammation of peritoneum
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                                                          Horwitz MS, Loeb LA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1998-551156/47.
                                                                                               WPI; 1998-582545/49.
                                                                                                                    N-PSDB; AAV66444.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 RFALNSTFK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-SEP-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
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present sequence appears in the specfiction, which describes a method
                                                                                                                                                                                                                                                                                                                                                                                                                                            for identifying oligoners sequences which specifically bind target molecules such as serum proteins, kinins, eicosanoids and extracellular proteins. The machod involves complexation of the target molecule with a mixture of oligonucleotides containing random sequences and sequences which serve as primer for PCR amplification. A complex is only formed with specifically binding oligonucleotide sequences. The complex is isolated, and complexed members of the oligonucleotide mixture are recovered by PCR. The method can be used to generate aptamers that can be used for therapeutic and diagnostic purposes, and for generating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; vascular permeability factor; VPF; mitomycin; cisplatin; vascular endothelial growth factor; VEGF; carcinostatic; anti-tumour;
the treatment of retention of body fluid during disease states, e.g. malignant and benign tumours, inflammation of peritoneum, ascites, and liver cirrhosis.
                                                                                                                                                                                                                                                                                                                                                                                               Assay for thrombin and purification of thrombin - using DNA aptamer
                                                            Type: P Check: 3548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           December 11, 2003 07:10 Type: P Check: 3472
                                                                                                                                                                                      Bradykinin; aptamer; therapeutic; diagnosis; secondary.
                                                                                                                                                                                                                                                                                                                                                Toole JJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human vascular permeability factor peptide SEQ ID NO:1.
                                                                                                                                                                                                                                                                                                                                               Latham J, Leung L,
                                                           December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Column 81; 115pp; English.
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                                                                                                !!AA_SEQUENCE 1.0
ID AAW79806 standard; Peptide; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               !!AA_SEQUENCE 1.0
ID AAW42433 standard; peptide; 9
                                                                                                                                                                                                                                                                                               92WO-US01383.
95US-0484192.
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                                                                                                                                                                   Bradykinin peptide sequence
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                                                                                                                                               08-DEC-1998 (first entry
                                                                                                                                                                                                                                                                                                                                               Griffin L,
                                                                                                                                                                                                                                                                                                                            (GILE-) GILEAD SCI INC
                                                                                                                                                                                                                                                                                                                                                                           WPI; 1998-321524/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     secondary aptamers,
                                        9 AA;
                                                          AAW74626 Length: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAW79806 Length: 9
                                                                              KPSCVPLMR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RPPGFSPFR
                                                                                                                                                                                                          Jnidentified
                                                                                                                                                                                                                                                                   07-JUN-1995;
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                                                                                                                                                                                                                                                                                                21-FEB-1992;
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                                                                                                                                                                                                                                                                                                                                               Albrecht G,
                                                                                                                                                                                                                                                                                                                                                        Vermaas E;
                                                                                                                              AAW79806;
                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAW42433;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                          888888
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The present sequence represents a preferred peptide fragment from human vascular permeability factor (VPF), which is used in the example of the present invention to produce a monoclonal antibody against human VPF. The monoclonal antibody produced was designated MW 833. The monoclonal antibody was used in a novel carcinostatic of the present invention, comprising an anti-vascular endothelial growth factor (VEGF)/VPF antibody (Ab), and mitomycin or cisplatin. The carcinostatic improves the effect of the known anti-tumour agents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present sequence represents a tumour metastasis inhibitor peptide from the present invention describes a tumour metastasis inhibitor consisting of vascular endothelial cell growth factor (VEGF) inhibitor. In an example, anti-vascular endothelial cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tumour metastasis inhibitor - consists of vascular endothelial cell
growth factor inhibitor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Carcinostatic comprises anti-vascular endothelial growth factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Check: 3548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tumour metastasis inhibitor, human, VEGF, metastasis therapy, vascular endothelial cell growth factor; monoclonal antibody.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           December 11, 2003 07:10 Type: P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rumour metastasis inhibitor peptide 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antibody - and mitomycin or cisplatin
monoclonal antibody; MAb; MV 833,
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ID AAW53382 standard; peptide; 9 AA.
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                                                                                           Homo sapiens
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producing cell was prepared. A myeloma cell was prepared and cell fusion was carried out. The hybridoma was selected and cultured. The monoclonal antibody was collected and purified. The reaction site of the monoclonal antibody was identified. A peptide corresponding to part of the amino a cid sequence of vascular endothelial cell growth factor was prepared. A peptide reacting with the monoclonal antibody was identified. The monoclonal antibody was used as a tumour metastasis inhibitor. The drug can be effectively applied in metastasis therapy. growth factor polyclonal antibody was produced, and an antibody. Seguence 9 AA; 8888888888888

Check: 3548 AAW53382 Length: 9 December 11, 2003 07:10 Type: P

KPSCVPLMR

AAY50235 standard; Peptide; 9 AA SEQUENCE

12-JAN-2000 (first entry)

Neutrophil-activating pancreatic derived peptide 35.

Cell activation, pancreas; treatment, cardiovascular disease; trauma; inflammatory disease; autoimmune diseases; arthritis; diabetes; stroke, organ.rejection; ischemia; Alzheimer's disease; myocardial infarction; haemorrhagic shock; diabetic retinopathy, venous insufficiency; angina; trauma; protease inhibitor; hypertension; sepsis.

Mus sp.

WO9946367-A2.

16-SEP-1999

99WO-US05247. 11-MAR-1999; 98US-0038894 11-MAR-1998;

(CELL-) CELL ACTIVATION INC. (REGC) UNIV CALIFORNIA.

(REGC) UNIV CALIFORNIA. (SCRI) SCRIPPS RES INST.

Hugli TE, Schmid-Schonbein GW, Stoughton RB,

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Kistler

WPI; 1999-580234/49.

Use of cell activating compositions in developing products for diagnosis and treatment of e.g. cardiovascular, inflammatory, autoimmune or Alzheimer's disease, trauma, arthritis, organ rejection, diabetes, stroke or ischemia

Example 9; Page 182; 184pp; English.

Alzheimer's disease, myocardial infarction, haemorrhagic shock, diabetic retinopathy, diabetes, venous insufficiency, unstable angina or trauma. They can be used in the veterinary treatment of a non-human subject. Procease inhibitors can be used to lower cell activation resulting from these diseases and deficiencies. The detection of an elevated level of This invention describes a novel method for the use and preparation of cell activating compositions which involves preparing a cell activating composition compositions which involves preparing a cell activating composition comprising (a) homogenizing pancreatic tissue in buffer at about neutral or higher pH to produce a homogenate; (b) removing resulting homogenate, with particulates removed, with a protease; and (d) fractionating the homogenate and selecting fractions that exhibit cell activation activity. The methods can be used for improving treatment outcome or reducing risk of treatment of e.g. cardiovascular disease, inflammatory disease, trauma, autoimmune diseases, arthritis, organ rejection, diabetes and diabetic complications, stroke, ischemia, aydrogen peroxide can be used to detect an inflammatory condition. An

elevated level of hydrogen peroxide in plasma or whole blood and in the presence of superoxide dismutase (SOD) indicates leukocyte up regulation, e.g. indicative of the onset of an acute cardiovascular disorders, such as disease onset or ischemic complications. An elevated level of hydrogen peroxide in plasma or whole blood and a low level in the presence of SOD is indicative of a chronic or immune compromised condition e.g. hypertension or sepsis. AAY50201-Y50334 represent peptides used in the method of the invention. 8888888888888

9 AA; Sequence AAY50235 Length: 9 December 11, 2003 07:10 Type: P Check: 3472

1 RPPGFSPFR

11AA_SEQUENCE 1.0 ID _AAY45701 standard; Peptide; 9 AA

AAY45701;

01-DEC-1999 (first entry)

Immunogenic peptide having a human leukocyte antigen binding motif #312

Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA; immune response; T cell activation; major histocompatibility complex; cytotoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; ALDS; renal carcinoma;

Synthetic

vaccine; immunisation.

Homo sapiens.

WO9945954-A1

16-SEP-1999.

98WO-US05039. 13-MAR-1998;

98WO-US05039 13-MAR-1998;

(EPIM-) EPIMMUNE INC.

Southwood S; Grey HM, Celis E, Sidney J, Sette A, Kubo RT,

WPI; 1999-551214/46

New immunogenic peptides with HLA binding motif, useful in treatment and diagnosis of cancers and viral diseases

Claim 1; Page 39; 150pp; English.

AAY45390 to AAY48214 represent specifically claimed immunogenic peptides having a human major histocompatibility complex (MHC) Class I (also known as human leukocyte antigen (HLA)) binding motif. The immunogenic peptides can bind to a specific HLA allele (i.e. HLA-A subtypes HLA-A2.1, A1, A3.2 or A24.1 or HLA-B or C) and induce a cytotoxic T cell response against the antigen from which the peptide is derived. Cytotoxic T lymphocytes (CTLS) which destroy antigen-bearing cells are normally induced by an antigen in the form of a peptide fragment bound to a HLA molecule, rather than the intact foreign antigen itself, and are particularly important in tumour rejection and in fighting viral infections. The peptides are therefore useful therapeutically to treat or prevent viral infections and cancers in mammals (especially humans) e.g. prostate cancer, hepatitis B and C, AIDS, and renal carcinoma. They can be administered as vaccines to elicit an immune response in individuals susceptible or otherwise at risk of viral infection or cancer, or used to treat chronic or acute conditions. They are also useful diagnostically, and can be used to induce a cytotoxic T cell response, by contacting a cytotoxic T cell with the peptide e.g. to produce CILs ex vivo for infusion back into a patient. The polymore-conding the immunogenic peptides are also useful therapeutically and for immunisation as above.

Check: 3378

Type: P

having a human major histocompatibility complex (MHC) Class I (also having a human major histocompatibility complex (MHC) Class I (also beaving a human leukoyre antigen (HLA) binding motif. The immunogenic peptides can bind to a specific HLA allele (i.e. HLA-A subtypes HLA-A2.1, A1, A3.2 or A24.1 or HLA-B or C) and induce a cytotoxic T cell response against the antigen from which the peptide is derived. Cytotoxic T lymphocytes (CTLS) which destroy antigen-bearing cells are normally induced by an antigen in the form of a peptide fragment bound to a HLA molecule, rather than the intact foreign antigen itself, and are particularly important in tunour rejection and in fighting viral infections. The peptides are therefore useful therapeutically to treat or prevent viral infections and cancers in mammals (especially humans) when the antigen is and creat carriers and cancers in an important and infections and cancers in mammals carcinoma; Immunogenic peptide having a human leukocyte antigen binding motif #315. Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA; immune response; T cell activation; major histocompatibility complex; cytotoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma; They can be administered as vaccines to elicit an immune response in individuals susceptible or otherwise at risk of viral infection or cancer, or used to treat chronic or acute conditions. They are also useful diagnostically, and can be used to induce a cytocoxic T cell response, by contacting a cytotoxic T cell with the peptide e.g. to produce Trae ex vivo for infension back into a patient. The polymucleotides encoding the immunogenic peptides are also useful therapeutically and for immunisation as above. New immunogenic peptides with HLA binding motif, useful in treatment and diagnosis of cancers and viral diseases December 11, 2003 07:10 Celis E, Claim 1; Page 39; 150pp; English. SEQUENCE 1.0 AAY45704 standard; Peptide; 9 AA. Sidney J, 98WO-US05039. 98WO-US05039 01-DEC-1999 (first entry) vaccine; ımmunisation. (EPIM-) EPIMMUNE INC WPI; 1999-551214/46. Kubo RT, Sequence 9 AA; 9 AA; AAY45701 Length: 9 1 KVFVLGGCR 13-MAR-1998; 13-MAR-1998; Homo sapiens WO9945954-A1 Sequence Synthetic. AAY45704; Sette A, X S

Southwood S;

Grey HM,

December 11, 2003 07:10 Type: P Check: 3672 AAY45704 Length: 9 Immunogenic peptide having a human leukocyte antigen binding motif #463.

1 RLVFQTSTR

:: AA_SEQUENCE 1.0

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having a human major histocompatibility complex (MHC) Class I (also having a human major histocompatibility complex (MHC) Class I (also known as human leukocyte antigen (HLA) binding motif. The immunogenic peptides can bind to a specific HLA allele (i.e. HLA-A subtypes HLA-As.1, Al. Al. 2 or Al. 1 or HLA-B or C) and induce a cytotoxic T cell response against the antigen from which the peptide is derived.

Cytotoxic T lymphocytes (CTLS) which destroy antigen-bearing cells are normally induced by an antigen in the form of a peptide fragment bound to a HLA molecule, rather than the intact foreign antigen itself, and are particularly important in tumour rejection and in fightling vixal infections. The peptides are therefore useful therapeutically to treat or prevent viral infections and cancers in mammals (sepecially humans) e.g. prostate cancer, hepatitis B and C, ALDS, and renal carcinoma. They can be administered as vaccines to elicit an immune response in individuals susceptible or otherwise at risk of viral infection or cancer, or used to treat chronic or acute conditions. They are also userponse by contact the period of the conditions of the contact of the
                                                                                                                                              Immunogenic peptide having a human leukocyte antigen binding motif #317
                                                                                                                                                                                              Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA; immune response; T cell activation; major histocompatibility complex; cytotoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma; vaccine; immunisation.
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ID AAY45852 standard; Peptide; 9 AA.
AAY45706 standard; Peptide; 9 AA.
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                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
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                                                   AAY45706;
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ANY45390 to AAY48214 represent specifically claimed immunogenic peptides having a human major histocompatibility complex (MHC) Class I (also known as human leukcoyte antigen (HLA) binding motif. The immunogenic peptides can bind to a specific HLA-allele (i.e. HLA-A subtypes (HLA-A2.1, A1, A3.2 or A24.1 or HLA-B lor C) and induce a cytocoxic T cell response against the antigen from which the peptide is derived.

Cytotoxic T lymphocytes (CTLS) which destroy antigen-bearing cells are normally induced by an antigen in the form of a peptide fragment bound to a HLA molecule, rather than the intact foreign antigen itself, and are particularly important in tumour rejection and in fighting viral infections. The peptides are therefore useful therapeutically to treat or prevent viral infections and cancers in mammals (especially humans) e.g. prostate cancer, hepatitis B and C, AIDS, and renal carcinoma. They can be administrated as vaccines to elicit an immune response in individuals susceptible or otherwise at risk of viral infection or cancer, or used to treat chronic or acute conditions. They are also useful diagnostically, and can be used to induce a cytotoxic T cell response, by contacting a cytotoxic T cell with the peptide e.g. to produce CTLS ex vivo for infusion back into a patient. The populate in the immunication of the peptide end are also useful the immunogenic peptides are also useful
Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; Page 45; 150pp; English.
                                                                                                                                                                                                                                                                                                                                                                                    Sidney J,
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                                                                                                                                               Homo sapiens
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                                                                                                                        Synthetic
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Sequence 9 AA;

AAY45852 Length: 9

December 11, 2003 07:10 Type: P Check: 3252

!!AA_SEQUENCE 1.0 ID AAY46647 standard; Peptide; 9 AA. 1 HIMLCMCCK

AAY46647;

01-DEC-1999 (first entry)

Immunogenic peptide having a human leukocyte antigen binding motif #1258.

Human leukocyte antigen, binding; immunogenic; glycoprotein; MHC; HLA; immune response; T cell activation; major histocompatibility complex; cytotoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinom; vaccine; immunisation.

Homo sapiens Synthetic

EPIM- EPIMMUNE INC WPI; 1999-551214/46. Sette A, Kubo RT, 13-MAR-1998; WO9945954-A1 16-SEP-1999 immune response; T cell activation; major histocompatibility complex; cytotoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma; vaccine; immunisation. New immunogenic peptides with HLA binding motif, useful in treatment and diagnosis of cancers and viral diseases Southwood Grey HM, ы Celis

9 AA; Sequence

1 KLAAAAAK

AAY46725 standard; Peptide; 9 AA IAA_SEQUENCE 1.0

AAY46725;

Immunogenic peptide having a human leukocyte antigen binding motif #1336

Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA; immune response; T cell activation; major histocompatibility complex; cytotoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma;

Homo sapiens Synthetic

13-MAR-1998;

98WO-US05039 13-MAR-1998;

98WO-US05039.

98WO-US05039

ŝ Southwood Grey HM, Celis E, Sidney J,

New immunogenic peptides with HiA binding motif, useful in treatment and diagnosis of cancers and viral diseases

Claim 1; Page 80; 150pp; English.

AAY45390 to AAY48214 represent specifically claimed immunogenic peptides having a human major histocompatibility complex (MHC) Class I (also known as human leukocyte antigen (HLA) binding motif. The immunogenic peptides can bind to a specific HLA allele (i.e. HLA-A subtypes HLA-AZ.1, Al, A3.2 or A24.1 or HLA-B or C) and induce a cytotoxic T cell response against the antigen from which the peptide is derived.

Cytotoxic Tlymphocytes (CTLS) which destroy antigen-bearing cells are normally induced by an antigen in the form of a peptide fragment bound to a HLA molecule, rather than the intact foreign antigen itself, and are particularly important in tunnour respond antigen itself, and are particularly important in tunnour respection and in fighting viral infections. The peptides are therefore useful therapeutically to treat or prevent viral infections and cancers in mammals (especially humans) e.g. prostate cancer, hepatitis B and C, ALDS, and renal carcinoma. They can be administered as vaccines to elicit an immune response in individuals susceptible or totherwise at risk of viral infection or cancer, or used to treat chronic or acute conditions. They are also useful diagnostically, and can be used to induce a cytotoxic T cell response, by contacting a cytotoxic T cell with the peptide e.g. to produce CTLs ex vivo for infusion back into a patient. The polymucleotides encoding the immunogenic peptides are also useful

therapeutically and for immunisation as above.

AAY46647 Length: 9 December 11, 2003 07:10 Type: P Check: 3047

(first entry) 01-DEC-1999

raccine; immunisation.

16-SEP-1999.

VO9945954-A1

98WO-US05039,

Thu Dec 11 07:56:11 2003

AAY45390 to AAY48214 represent specifically claimed immunogenic peptides can human major histocompatibility complex (WHC) Class I (also known as human leukocyte antigen (HLA)) binding motif. The immunogenic peptides can bind to a specific HLA allele (i.e. HLA-A subtypes CC peptides can bind to a specific HLA allele (i.e. HLA-A subtypes CC HLA-A2.1, AI, A3.2 or A34.1 or HLA-B or C) and induce a cytotoxic T cell response against the antigen from which the peptide is derived.

CC crossic I lymphocytes (CTLs) which destroy antigen-bearing cells are cormally induced by an antigen in the form of a peptide fragment bound to A HLA molecule, rather than the intact foreign antigen itself, and are particularly important in tumour rejection and in fighting viral infections. The peptides are therefore useful therapeutically to treat or prevent viral infections and cancers in mammals (especially humans) corporate cancer, hepatitis B and C, ALDS, and renal carcinoma.

They can be administered as vaccines to elicit an immune response in individuals susceptible or otherwise at risk of viral infection or cancer, or used to treat chronic or acute conditions. They are also useful diagnostically, and can be used to induce a cytotoxic T cell crossonse, by contacting a cytotoxic T cell with the peptide e.g. to propunce CTLS ex vivo for infusion back into a patient. The polynuclecties encoding the immunogenic peptides are also useful Immunogenic peptide having a human leukocyte antigen binding motif #1341. immunogenic peptides with HLA binding motif, useful in treatment diagnosis of cancers and viral diseases Type: P Check: 3657 ŝ Southwood Grey HM, AAY46725 Length: 9 December 11, 2003 07:10 Celis E, !!AA_SEQUENCE 1.0 ID AAY46730 standard; Peptide; 9 AA. Claim 1; Page 83; 150pp; English. Sidney J, 01-DEC-1999 (first entry) (EPIM-) EPIMMUNE INC WPI; 1999-551214/46. Kubo RT, 9 AA; 1 HLFGYSWYK AAY46730; Sequence Sette A,

Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA; immune response; T cell activation; major histocompatibility complex; cytotoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma; 98WO-US05039. vaccine; immunisation Homo sapiens. 13-MAR-1998; WO9945954-A1 16-SEP-1999 Synthetic

98WO-US05039 (EPIM-) EPIMMUNE INC. 13-MAR-1998;

New immunogenic peptides with HLA binding motif, useful in treatment WPI; 1999-551214/46

Southwood

Grey HM,

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Celis

Sidney J,

Kubo RT,

Sette A,

AAY45390 to AAY48214 represent specifically claimed immunogenic peptides having a human major histocompatibility complex (MHC) Class I (also known as human leukcoyte antigen (HLA) binding motif. The immunogenic peptides can bind to a specific HLA allele (i.e. HLA-A subtypes C and bind to a specific HLA allele (i.e. HLA-A subtypes HLA-A2.1, Al, Al. 2 or A24.1 or HLA-B or C) and induce a cytotoxic T cell response against the antigen from which the peptide is derived.

Cytotoxic T lymphocytes (CTLS) which destroy antigen-bearing cells are normally induced by an antigen in the form of a peptide fragment bound are particularly important in them the intact foreign antigen itself, and are particularly important in tumour rejection and in fighting viral infections. The peptides are therefore useful therapettically to treat or prevent viral infections and cancers in mammals (especially to treat or prostate cancer, hepatitis B and C, AlDS, and renal carcinoma. They can be administered as vaccines to elicit an immune response in individuals susceptible or otherwise at risk of viral infection or cancer, or used to treat chronic or acute conditions. They are also useful diagnostically, and can be used to induce a cytotoxic T cell response, by contexting a cytotoxic T cell with the peptide e.g. to produce CTLs ex vivo for infusion back into a patient. The produce CTLs ex vivo for infusion back into a patient. The therapeutically and for immunisation as above and diagnosis of cancers and viral diseases Claim 1; Page 83; 150pp; English \mathbb{F} \mathbb{F}

9 AA; Sequence AAY46730 Length: 9 December 11, 2003 07:10 Type: P

RLQLSNGNR

AAY46731 standard; Peptide; 9 AA. (first entry) 01-DEC-1999 11AA SEQUENCE 1.0 AAY46731;

Immunogenic peptide having a human leukocyte antigen binding motif #1342. Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA; immune response; T cell activation; major histocompatibility complex; cytotoxic T lymphocyte, CTL; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma;

raccine; immunisation WO9945954-A1 Homo sapiens 16-SEP-1999. Synthetic

98WO-US05039 98WO-US05039 13-MAR-1998; 13-MAR-1998;

(EPIM-) EPIMMUNE INC.

Southwood Grey HM, m Celis Kubo RT, Sidney J, WPI; 1999-551214/46. Sette A,

New immunogenic peptides with HLA binding motif, useful in treatment and diagnosis of cancers and viral diseases

English. Claim 1; Page 83; 150pp; AAY45390 to AAY48214 represent specifically claimed immunogenic peptides having a human major histocompatibility complex (MHC) Class I (also known as human leukocyte antigen (HLA)) binding motif. The immunogenic peptides can bind to a specific HLA allele (i.e. HLA-A subtypes

seq28-agen.res

response against the antigen from which the peptide is derived.

Cytotoxic T lymphocytes (CTLs) which destroy antigen-bearing cells are normally induced by an antigen in the form of a peptide fragment bound to a HIA molecule, rather than the intext foreign antigen itself, and are particularly important in tumour rejection and in fighting viral infections. The peptides are therefore useful therapeutically to treat or prevent viral infections and cancers in mammals (especially humans) or prevent viral infections and cancers in mammals (especially humans) or prevent cancer, hepatitis B and C, AIDS, and renal carcinoma. They can be administered as vaccines to elicit an immune response in individuals susceptible or otherwise at risk of viral infection or inseful diagnostically, and can be used to induce a cytotoxic T cell response, by contacting a cytotoxic T cell with the peptide e.g. to produce CTLs ex vivo for infusion back into a patient. The polymucleotides encoding the immunogenic peptides are also useful therapeutically and for immunisation as above. A3.2 or A24.1 or HLA-B or C) and induce a cytotoxic T cell Sequence 9 AA;

December 11, 2003 07:10 Type: P Check: 3523 AAY46731 Length: 9

1 RLQLSNGNR

SEQUENCE 1.0 AAY46771 standard; Peptide; 9 AA. AA SEQUENCE

AAY46771;

(first entry) 01-DEC-1999 Immunogenic peptide having a human leukocyte antigen binding motif #1382.

Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA; immune response; T cell activation; major histocompatibility complex; cytotoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma;

vaccine; immunisation.

Homo sapiens, Synthetic

W09945954-A1

16-SEP-1999.

98WO-US05039 .3-MAR-1998; 98WO-US05039 13-MAR-1998;

(EPIM-) EPIMMUNE INC.

Southwood S; Grey HM, Celis E, Sette A, Kubo RT, Sidney J,

WPI; 1999-551214/46.

New immunogenic peptides with HLA binding motif, useful in treatment and diagnosis of cancers and viral diseases

Claim 1; Page 84; 150pp; English.

having a human major histocompatibility complex (MHC) class I (also having a human major histocompatibility complex (MHC) class I (also peptides a human leukocyte antigen (HLA) binding motif. The immunogenic peptides can bind to a specific HLA allele (i.e. HLA-A subtypes HLA-A.2.1, Al., A3.2 or A24.1 or HLA-B or C) and induce a cytotoxic T cell response against the antigen from which the peptide is derived. Cytotoxic T lymphocytes (CTLS) which destroy antigen-bearing cells are normally induced by an antigen in the form of a peptide fragment bound are particularly important in tunance foreign antigen itself, and are particularly important in the mouver rejection and in fighting viral infections. The peptides are therefore useful therapeutically to treat or prevent viral infections and cancers in mammals (especially humans)

e.g. prostate cancer, hepatitis B and C, AIDS, and renal carcinoma. They can be administered as vaccines to elicit an immune response in individuals susceptible or otherwise at risk of viral infection or cancer, or used to treat chronic or acute conditions. They are also useful diagnostically, and can be used to induce a cytotoxic T cell response, by contacting a cytocoxic T cell with the peptide e.g. to produce CTLs ex vivo for infusion back into a patient. The polynucleotides encoding the immunogenic peptides are also useful therapeutically and for immunisation as above.

8888888888888

Sequence 9 AA;

AAY46771 Length: 9 December 11, 2003 07:10 Type: P Check: 3353

1 RAAPLILLAR

AAY46831 standard; Peptide; 9 AA !!AA SEQUENCE 1.0

AAY46831;

01-DEC-1999 (first entry)

Immunogenic peptide having a human leukocyte antigen binding motif #1442.

Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA; immune response; I cell activation; major histocompatibility complex; eytotoxic T lymphocyte; CTI; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma; vaccine; immunisation.

Synthetic

Homo sapiens.

WO9945954-A1.

16-SEP-1999.

98WO-US05039. 13-MAR-1998; 98WO-US05039. 13-MAR-1998;

(EPIM-) EPIMMUNE INC

ŝ Southwood Grey HM, Celis E, Sidney J, WPI; 1999-551214/46. Sette A, Kubo RT,

New immunogenic peptides with HLA binding motif, useful in treatment and diagnosis of cancers and viral diseases

Claim 1; Page 86; 150pp; English.

AAY45390 to AAY48214 represent specifically claimed immunogenic peptides having a human major histocompatibility complex (MHC) Class I (also known as human leukocyte antigen (HLA) binding motif. The immunogenic peptides can bind to a specific HLA allele (i.e. HLA-A subtypes CC peptides can bind to a specific HLA allele (i.e. HLA-A subtypes CC HLA-A2.1, A1, A3.2 or A24.1 or HLA-B or C) and induce a cytotoxic T cell HLA-B1 in the form which the peptide is derived.

Cytotoxic T lymphocytes (CTIs) which destroy antigen-bearing cells are cytoally induced by an antigen in the form of a peptide fragment bound to a HLA molecule, rather than the intact foreign antigen itself, and are particularly important in tunnour rejection and in fighting viral corrections. The peptides are therefore useful therapeutically to treat or prevent viral infections and cancers in mammals (especially humans) crop prostate cancer, hepatitis B and C, AIDS, and renal carcinoma.

CT They can be administered as vaccines to elicit an immune response in individuals susceptible or otherwise at risk of viral infection or individuals susceptible or otherwise at risk of viral infection or concer, or used to treat chronic or acute conditions. They are also cresponse by contacting a cytotoxic T cell with the peptide e.g. to copy produce CTLS ex vivo for infusion back into a patient. The polymucleotides encoding the immunogenic peptides are also useful

AAY46926 standard, Peptide; 9 AA.

SEQUENCE 1.0

: AA

(first entry)

01-DEC-1999

AAY46926;

Check: 3610

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AAY45390 to AAY48214 represent specifically claimed immunogenic peptides having a human major histocompatibility complex (MHC) Class I (also known as human leukcoyte antigen (HLA) binding motif. The immunogenic peptides can bind to a specific HLA allele (i.e. HLA-A subtypes C peptides can bind to a specific HLA allele (i.e. HLA-A subtypes C HLA-A2.1, Al, A3.2 or A24.1 or HLA-B or C) and induce a cytotoxic T cell response against the antigen from which the peptide is derived.

Cytotoxic T lymphocytes (CTLS) which destroy antigen-bearing cells are normally induced by an antigen in the form of a peptide fragment bound normally induced by an antigen in the form of a peptide fragment bound are particularly important in tumour rejection and in fighting viral infections and cancer in mammals (sepecially humans) or prostate cancer, hepatitis B and C, AIDS, and renal carcinoma. They can be administered as vaccines to elicit an immune response in individuals susceptible or otherwise at risk of viral infection or cancer, or used to treat chronic or acute conditions. They are also useful diagnostically, and can be used to induce a cytotoxic T cell response, by contacting a cytotoxic r cell with the peptide e.g. to produce CTLs ex vivo for infusion back into a patient. The period of the immunogenic peptides are also useful Immunogenic peptide having a human leukocyte antigen binding motif #1536 Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA; immune response; T cell activation; major histocompactibility complex; oytocoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma; New immunogenic peptides with HLA binding motif, useful in treatment and diagnosis of cancers and viral diseases December 11, 2003 07:10 Type: for immunisation as above. therapeutically and for immunisation as above. Celis E, Claim 1; Page 89; 150pp; English. !!AA SEQUENCE 1.0 ID _AAY46925 standard; Peptide; 9 AA. Kubo RT, Sidney J, 98WO-US05039 98WO-US05039 (first entry) vaccine; immunisation (EPIM-) EPIMMUNE INC. herapeutically and WPI; 1999-551214/46. 9 AA; AAY46831 Length: 9 9 AA; RLPSFPTOR L3-MAR-1998; Homo sapiens WO9945954-A1 .3-MAR-1998; 16-SEP-1999. 01-DEC-1999 Synthetic Sequence Sette A, AAY46925 S X S

Southwood

Grey HM,

December 11, 2003 07:10 Type: P Check: 3406

AAY46925 Length: 9

KVGNFTGLK

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AAY45390 to AAY48214 represent specifically claimed immunogenic peptides having a human major histocompatibility complex (MHC) Class I (also known as human leukcoyte antigen (HLA) binding motif. The immunogenic peptides can bind to a specific HLA allele (i.e. HLA-A subtypes HLA-A2.1, AI, A3.2 or A24.1 or HLA-B or C) and induce a cytotoxic T cell response against the antigen from which the peptide is derived.

Cytotoxic T lymphocytes (CTLS) which destroy antigen-bearing cells are normally induced by an antigen intect foreign antigen itself, and the middly induced by an antigen intect foreign antigen itself, and the particularly important in tumour rejection and in fighting viral infections are particularly important in tumour rejection and in fighting to treat or prevent viral infections and cancers in mammals (especially humans) and cancer, hepatitis B and C, AIDS, and renal carcinoma. They can be administered as vaccines to elicit an immune response in individuals susceptible or otherwise at risk of viral infection or useful diagnostically, and can be used to induce a cytotoxic T cell response, by contexting a cytotoxic T cell with the peptide e.g. to produce CTLse x vivo for influsion back into a patient. The polymuclectides encoding the immunoganic peptides are also useful therapeutically and for immunisation as above.
                                                                 Immunogenic peptide having a human leukocyte antigen binding motif #1537.
                                                                                               Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA; immune response; T cell activation; major histocompatibility complex; cytotoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer; prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New immunogenic peptides with HLA binding motif, useful in treatment and diagnosis of cancers and viral diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Southwood S;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Celis E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; Page 89; 150pp; English.
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AAY30986 standard; peptide; 9 AA.
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                                                                                                                                                                                 vaccine; immunisation.
                                                                                                                                                                                                                                                                                                                                                                                                                     (EPIM-) EPIMMUNE INC
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                                                                                                                                                                                                                                     Homo sapiens
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                                                                                                                                                                                                                  Synthetic.
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This invention describes a novel aqueous suspension of monodisperse particles on non-crosslinked, non-denatured albumin (50-5000 nm) which is stable against dissolving upon dilution with an alcohol-free aqueous medium. The method involves (a) forming an aqueous solution containing albumin and hemoglobin and (b) treating the aqueous solution with an alcohol to cause the solution to become turbid. The particles are useful as agents for in vivo administration, either of their own administration permits for in vivo administration, either of their own administration permits the formation of albumin and hemoglobin particles in the nanometer and micrometer size range, in a form closer to their natural form than the forms of the prior art. The particles therefore constitute amore closely controlled agent for in vivo administration, with greater ease of clearance from the body after their period of usefulness.

ANY30952-Y31135 represent peptides used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Peptide purification; hexylene glycol; biopharmaceutical; bradykinin; protein separation; reversed-phase liquid chromatography.
                                                                                                                                                                                                                                                                                                                                                                       Non-crosslinked protein particles for therapeutic and diagnostic use
              Non-crosslinked protein particle; diagnostic; therapy; monodisperse; albumin; haemoglobin; nanometer; micrometer; clearance.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         !!AA_SEQUENCE 1.0
ID _AAY06938 standard; peptide; 9 AA.
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92US-0959560.
93US-0069831.
96US-0747137.
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                                                                                                                                                                                                                                                                                                                                       WPI; 1999-508153/42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9 AA;
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                                                                                                                                                                                14-MAR-1994;
15-JAN-1991;
13-OCT-1992;
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12-NOV-1996;
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                                                                                         JS5945033-A
                                                                                                                      11-AUG-1999
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                                                            Synthetic.
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The invention relates to a process for purifying a molecule selected from a peptide, a polypeptide, and a biologically active non-peptidy compound. The process comprises the elution of the molecule from the column with a buffer containing hexylene glycol. The method is specifically used for purifying biopharmaceuticals. While ethanol, art purification, often provide good protein separations using reversed art purification, often provide good protein separations using reversed phase liquid chromatography, they are Liammable solvents, and using them at large scale requires expensive non-flammable-capable equipment and facilities. Further, acctonitrile is a denaturant and is toxic to the environment. The new method purifies molecules by reversed-phase liquid chromatography, using the non-flammable eluent hexylene glycol rather
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAM97381-82 represent antagonist of vascular endothelial growth factor (VEGF)/vascular permeability factor (VFF). The peptides are used in an anticancer agent, which is used to inhibit growth
                                                                                                                                                                                                                                                                                                                                                                                                             AAY06938 Length: 9 December 11, 2003 07:10 Type: P Check: 3472
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antagonist; vascular endothelial growth factor; VEGF; vascular permeability factor; VPF; anticancer agent; growth inhibition; tumour.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A VEGF/VPF antagonist used in an anticancer agent.
                                                                   Purification of molecules, e.g. peptides
                                                                                                   Example 2; Page 26; 47pp; English.
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ID _AAW97381 standard; peptide; 9 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (IATR ) IATRON LAB INC.
(TOAG ) TOA GOSEI CHEM IND LTD.
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Fahrner RL, Reifsnyder D;
                                                                                                                                                                                                                                                                                                                         chromatography using the than a flammable eluent.
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                                 WPI; 1999-302984/25
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                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAW97381;
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December 11, 2003 07:10 Type: P Check: 3548

AAW97381 Length: 9

KPSCVPLMR

!!AA_SEQUENCE 1.0 ID AAW67793 standard; peptide; 9 AA.

(first entry)

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Peptides AAW67787-W67796 represent peptide substrates for a novel neuronal nitric oxide synthase (nNOS-II) isolated from rat brains. The nNOS-II protein has a molecular mass of about 105 kD (denaturing conditions) and a native homodimeric molecular mass of about 230 kD (gel filtration). The nNOS-II enzyme requires FAD, FWN, Ca2+, and tetrahydrobiopterin cofactors for the production of nitric oxide either from L-arginine or an analogue or derivative, or from an arginine-rich peptide, oligopeptide, or protein substrate. Unlike previously defined to softcorms, nNOS-II su unique in that it is calmodulin-dependent with L-arginine as substrate, but calmodulin-independent with an arginine-rich polypeptide such as bradykinin as substrate. The nNOS-II can be used to identify compounds which inhibit or enhance NOS activity. Inhibitors of the nNOS-II can be used for the modulation of cardiovascular, for the management of opicid withdrawal or cocaine-induced toxicity, or for the prevention or treatment of certain nitric oxide-mediated pathogenic conditions, such as ischemic stroke, diabetes, systemic hypotension, multiple sclerate, or
                                                                                                                                         calmodulin; bradykinin; modulation; cardiovascular; gastrointestinal; contraceptive, opioid withdrawal; cocaine; toxicity; ischaemic stroke; diabetes; hypotension; multiple sclerosis; Huntington's disease; Parkinson's disease; Alzheimer's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Isolated nitric oxide synthase protein - purified from rat brain, used to develop products for treating e.g. ischaemic stroke, diabetes, systemic hypotension, multiple sclerosis or Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bradykinin substrate for rat brain nitric oxide synthase.
                                                                                        [Lys(1)]-bradykinin as substrate for rat brain nNOS-II
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ID AAW67787 standard; peptide; 9 AA.
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                                                      30-MAR-1999
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                                                                                                                                                                                                                                   Synthetic
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                    AAW67793;
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MAXBX BX BX BX B
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96US-0675821

96US-0675821

Neuronal nitric oxide synthase, nNOS-II, rat, brain, arginine, bronchial, calmodulin; bradykinin; modulation; cardiovascular; gastrointestinal;

(first entry)

December 11, 2003 07:10 Type: P Check: 3465

9 AA;

Peptides AAW67787-W67796 represent peptide substrates for a novel neuronal nitric oxide synthase (nNOS-II) isolated from rat brains. The NNOS-II protein has a molecular mass of about 105 kD (denaturing conditions) and a native homodimeric molecular mass of about 230 kD (gel filtration). The nNOS-II enzyme requires FAD, FMN, Ca2+, and tetrahydrobiopterin cofactors for the production of nitric oxide either from L-arginine or an analogue or derivative, or from an arginine-rich peptide, oligopeptide, or protein substrate. Unlike previously defined NOS isoforms, nNOS-II is unique in that it is calmodulin-dependent with polypoptide such as bradykinin as substrate. The nNOS-II can be used to identify compounds which inhibit or enhance NOS activity. Inhibitors of the nNOS-II can be used for the modulation of cardiovascular, gastrointestinal, or bronchial activities, for contraceptive control, for the management of opioid withdrawal or cocaine-induced toxicity, or for the prevention or treatment of certain nitric oxide-mediated pathogenic conditions, such as ischemic stroke, diabetes, systemic hypotension, multiple sclerosis, Huntington's disease, Parkinson's disease, or Prolyl tripeptidyl-peptidase, amidolytic activity, periodontal disease, gingivitis, periodontitis. contraceptive; opioid withdrawal; cocaine; toxicity; ischaemic stroke; Peptide substrate used to test prolyl-tripeptidyl peptidase activity. Isolated nitric oxide synthase protein - purified from rat brain, used to develop products for treating e.g. ischaemic stroke, diabetes, systemic hypotension, multiple sclerosis or Alzheimer's diabetes; hypotension; multiple sclerosis; Huntington's disease; Parkinson's disease; Check: 3472 Type: P /note= "hydrogen attached" December 11, 2003 07:10 Disclosure; Column 7-8; 19pp; English. Location/Qualifiers SEQUENCE 1.0 AAB18478 standard; peptide; 9 AA. 96US-0675821. (IOWA) UNIV IOWA RES FOUND. (first entry) Chen Y, Rosazza JPN; WPI; 1999-105115/09. Alzheimer's disease. AAW67787 Length: 9 9 AA; 1 RPPGFSPFR WO200052147-A2 Key Modified-site 05-JUL-1996; 15-JAN-2001 JS5856158-A 05-JAN-1999 Synthetic. Synthetic Sequence AAB18478; disease SON COURSE OF CO

nitric oxide synthase; nNOS-II; rat; brain; arginine; bronchial;

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UYGE-) UNIV GEORGIA RES FOUND INC.
                              (UYGE-) UNIV GEORGIA RES FOUND INC.
(TRAV/) TRAVIS J.
(POTE/) POTEMPA J.
(BANE/) BANBULA A.
                                                                                                                                                                                                    Claim 3; Page 37; 58pp; English
                                                                                                                                                                                                                                                                                                                                     03-MAR-2000; 2000WO-US0551
                                                                                                                                                                                                                                                                                                                                                99US-0123148
          03-MAR-2000; 2000WO-US05551
                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                     Potempa J,
                                                        Fravis J, Potempa J,
                                                                   WPI; 2000-594181/56
                                                                                                                                                                                                                                                                                                                                                               (TRAV/) TRAVIS J. POTEMPA J. BANB/) BANBULA A.
                                                                                                                                                                     9 AA;
                                                                                                                                                                               Length: 9
                                                                                                                                                                                         1 RPPGFSPFR
                                                                                                                                                                                                                                                                                                                 WO200052147-A2
                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                                            Modified-site
                                                                                                                                                                                                                                                                                                                                                05-MAR-1999;
                    05-MAR-1999;
                                                                                                                                                                                                                              15-JAN-2001
                                                                                                                                                                                                                                                                                                                           08-SEP-2000
                                                                                                                                                            gingivalis.
                                                                                                                                                                                                                                                                                                                                                                                     Travis J,
                                                                                                                                                                      Seguence
                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                    AAB18482;
                                                                                                                                                                               AAB18478
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Banbula A;

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The invention relates to drug carrier compositions comprising a drug complexed with dermatan sulphate, which provides improvements in drug performance. The drug carrier composition exhibits fungicidal, virucidal, bactericidal and cytostatic activity. The composition works as a synergist and agonist. The composition can be used for the treatment of tumours or fungal, bacterial, mycobacterial, viral or other diseases and also in the treatment of vascular disorders. The compositions provide improved selectivity, efficacy, uptake mechanism and kinetic-spatial profiles at sites of disease. The present sequence represents an arginine bradykinin peptide which is used in formulation with purified dermatan sulphate, for site selective localisation, accumulation,
                                                                 fragment or variant useful
                                                                                                                                                                                              The present sequence represents a substrate which was used to test the activity of prolyl tripeptidyl-peptidases PTP-A and DPP IV. The prolyl tripeptidyl-peptidase has an amidolytic activity, and cleaves a peptide bond in a target polypeptide having at least 4 amino acids. This bond is between a proline and an amino acid attached to the alpha carboxyl group end of the proline. The polypeptide is useful for identifying inhibitors. These inhibitors are then useful for reducing the growth of bacterium or for protecting an animal from a periodontal disease such as gingivitis and periodontitis caused by Porphyromonas
                                                              Prolyl tripeptidyl-peptidase, active analog, fragment or variant usefu
for identifying its inhibitor which is useful for protecting an animal
from a periodontal disease such as gingivitis and periodontitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Drug carrier composition; dermatan sulphate; fungicidal; virucidal; bactericidal; cytostatic; tumour; fungal; bacterial; mycobacterial; disease; vascular disorder; white blood cell; chemoattractant; viral; arginine bradykinin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Drug carrier composition comprising a drug combined with dermatan sulfate, useful in the treatment of e.g. tumors or fungal, bacterial mycobacterial and viral diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                December 11, 2003 07:10 Type: P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 33; Column 61; 109pp; English.
                                                                                                                                                                Example 4; Page 37; 58pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             !!AA SEQUENCE 1.0
ID —AAB23542 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Arginine bradykinin peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                95US-0509338
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-571318/53.
                    WPI; 2000-594181/56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB18482 Length: 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 RPPGFSPFR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-JUL-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-JAN-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                   gingivalis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB23542;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Prolyl tripeptidyl-peptidase, active analog, fragment or variant useful for identifying its inhibitor which is useful for protecting an animal from a periodontal disease such as gingivitis and periodontitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Prolyl tripeptidyl-peptidase, amidolytic activity, periodontal disease, gingivitis, periodontitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present sequence represents a substrate which was used to test the activity of prolyl tripeptidyl-peptidases PTP-A and DPP IV. The prolyl tripeptidyl-peptidase has an amidolytic activity, and cleaves a peptide bond in a target polypeptide having at least 4 amino acids. This bond is between a proline and an amino acid attached to the alpha-carboxyl group end of the proline. The polypeptide is useful for identifying inhibitors. These inhibitors are then useful for reducing the growth of bacterium or for protecting an animal from a periodontal disease such as gingivitis and periodontitis caused by Porphyromonas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Peptide substrate used to test prolyl-tripeptidyl peptidase activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            December 11, 2003 07:10 Type: P Check: 3472
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/note= "hydroxyproline"
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                                                                                                                                                                                                                                                                     Banbula A;
                                                                                                 99US-0123148
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Check: 3472

blomodulatory peptides at sites of tumours and/or retention and action of biomodulatory peptides at sites of tumours and infections. The peptide and dermatan sulphate formulation recruits and activates endogenous or transfused white blood cells at the targeted site. 8X8888

9 AA; Sequence

Check: 3472 Type: P AAB23542 Length: 9 December 11, 2003 07:10

1 RPPGFSPFR

SEQUENCE 1.0 AAY97911 standard; peptide; 9 AA.

AAY97911;

(first entry) 11-SEP-2000

Bradykinin 2 receptor antagonist, [D-Phe7]-bradykinin.

vasotropic; spasmolytic; surgical procedure; arthroscopy; urology; cardiovascular surgery; wound; irrigation solution; localised administration; mitogen-activated protein kinase; Bradykinin receptor antagonist; BK2; analgesic; anti-inflammatory;

MAPK inhibitor.

Mammalia. Synthetic.

Location/Qualifiers Misc-difference

/note= "D-form residue"

WO200023072-A1

27-APR-2000

99WO-US24625. 20-OCT-1999; 98US-0105026. 20-OCT-1998;

(OMER-) OMEROS MEDICAL SYSTEMS INC.

Herz JM; Palmer PP, Demopulos GA,

WPI; 2000-350330/30.

Method of pre-emptively inhibiting pain/inflammation at wound during surgical procedures comprises local perioperative delivery of solution comprising mitogen-activated protein kinase inhibitor

Disclosure; Page -; 121pp; English

The invention relates to a method and composition for pre-emptively inhibiting pain and inflammation at a wound during a surgical procedure. The method comprises delivering locally and perioperatively a solution comprising at least one mitogen-activated protein kinase (MAPK) inhibitor. The solution also comprises at least one other pain/ inhibitor inhibitory agent such as a bradykinin receptor antagonist, a kallikrein inhibitor, a serotonin receptor antagonist, a serotonin receptor antagonist, a receptor subtype antagonist, a serotonin receptor subtype antagonist, a calcium channel antagonist and an opicid corposition. The composition of the invention provides analgesic agent such as an endothelin receptor antagonist is also included in the composition. The composition of the invention provides analgesic auti-inflammatory, anti-spasm and anti-restenotic effects and can be used as an irrigation solution in arthroscopy, cardiovascular and general vascular diagnostic and therapeutic procedures, urologic procedures and the treatment of burns and operative wounds. Conventional irrigation solutions are physiologic fluids such as saline or lactated Ringer's solution, which do not provide the beneficial effects of the composition of the invention

specification, but is derived information provided on page 23. is directly administered to the wound or operative site, the active agents are present at very low concentrations, meaning that the adverse side effects associated with systemic administration of the same agents are minimised. Sequences AAP97911-Y97914 represent examples of bradykinin 2 (BK2) receptor antagonists that may be used in the vasotropic, spasmolytic, surgical procedure, arthroscopy, urology, cardiovascular surgery, wound, irrigation solution, localised administration, alpha-2 adrenergic receptor agonist. Bradykinin receptor antagonist; BK2; analgesic; anti-inflammatory; AAY97911 Length: 9 December 11, 2003 07:10 Type: P Check: 3402 Bradykinin 2 receptor antagonist, [D-Phe7]-bradykinin. is directly administered to the wound or bradykinin 2 (BK2) receptor antagonists compositions of the invention. Note: This sequence is not given in the from the sequence of bradykinin and the /note= "D-form residue" Location/Qualifiers OMER-) OMEROS MEDICAL SYSTEMS INC. Herz JM; !!AA_SEQUENCE 1.0 ID AAY97926 standard; peptide; 9 AA. 99WO-US24672. 98US-0105029. (first entry) Palmer PP, WPI; 2000-350329/30. 9 AA; Misc-difference RPPGFSFFR WO200023066-A2 Demopulos GA, 20-OCT-1998; 11-SEP-2000 20-0CT-1999; 27-APR-2000 Synthetic Mammalia. Sequence AAY97926; 8888888888888

The invention relates to a method and composition for pre-emptively inhibiting pain and inflammation at a wound during a surgical procedure. The method comprises delivering locally and perioperatively a solution comprising at least one alpha-2 adrenergic receptor agonist. The solution also comprises at least one other pain/inflammation inhibitory agent such as a bradykinin receptor antagonist, a kallikrein inhibitory inhibitor, a serotonin receptor antagonist, a serotonin receptor antagonist, a serotonin receptor antagonist, a serotonin receptor inhibitor, a purinoceptor antagonist, an ATP-sensitive potassium channel opener, a calcium channel antagonist and an opicid receptor agonist. In certain embodiments of the invention, an anti-spasm anti-inflammatory, anti-spasm and anti-restenotic effects and can be used as an irrigation solution in arthroscopy, cardiovascular and general vascular diagnostic and therapeutic procedures, urologic procedures and the treatment of burns and operative wounds. Conventional Method of pre-emptively inhibiting pain or inflammation at wound during surgical procedures comprises local perioperative delivery of solution comprising alpha-2 agonist agent such as an endothelin receptor antagonist is also included in the composition. The composition of the invention provides analgesic, Disclosure, Page -, 114pp; English.

agents are present at very low concentrations, meaning that the adverse side effects associated with systemic administration of the same agents are minimised. Sequences AAY97926-Y97929 represent examples of bradykinin 2 (BK2) receptor antagonists that may be used in the compositions of the invention.

Note: This sequence is not given in the specification, but is derived from the sequence of bradykinin and the information provided on page 22. irrigation solutions are physiologic fluids such as saline or lactated Ringer's solution, which do not provide the beneficial effects of the composition of the invention. Because the composition of the invention is directly administered to the wound or operative site, the active 9 AA; Seguence 8 x 6 6 6 6 6 6 6 6 6 6 6 6 8 8 8 8

December 11, 2003 07:10 Type: P Check: 3402 AAY97926 Length: 9

1 RPPGFSFFR

!!AA_SEQUENCE 1.0 ID AAY97941 standard; peptide; 9 AA.

AAY97941;

11-SEP-2000 (first entry)

Bradykinin 2 receptor antagonist, [D-Phe7]-bradykinin.

Bradykinin receptor antagonist; BK2; analgesic; anti-inflammatory; assotropic; spasmolytic; surgical procedure; arthroscopy; urology; cardiovascular surgezy; wound; irrigation solution; localised administration; cyclooxygenase-2 inhibitor; COX-2.

Mammalia

Synthetic

/note= "D-form residue" Location/Qualifiers Key Misc-difference

WO200023061-A2

27-APR-2000

99WO-US24557 20-OCT-1999;

98US-0105166. 21-OCT-1998; (OMER-) OMEROS MEDICAL SYSTEMS INC.

Palmer PP, Herz JM; Demopulos GA,

WPI; 2000-339499/29.

Method of pre-emptively inhibiting pain and inflammation at a wound during a surgical procedure comprises delivering locally and peri-operatively a solution comprising a cyclooxygenase-2 inhibitor

Disclosure; Page -; 114pp; English.

The invention relates to a method and composition for pre-emptively inhibiting pain and inflammation at a wound during a surgical procedure. The method comprises delivering locally and perioperatively a solution comprising at least one cyclocxygenase-2 (COX-2) inhibitor. The comprision also comprises at least one other pain/inflammation inhibitory agent such as a bradykinin receptor antagonist, a serotonin receptor antagonist, a serotonin receptor antagonist, an enrokinin 2 receptor subtype antagonist, a calcium channel antagonist, an APP-sensitive professium channel opener, a calcium channel antagonist and an opicid receptor agonist. In certain embodiments of the invention, an anti-spasm agent such as an calcium channel antagonist is also included in the composition. The composition of the invention provides analgesic, anti-inflammatory, anti-spasm and anti-restenotic effects and can be used as an

vascular diagnostic and therapeutic procedures, urologic procedures and the treatment of burns and operative wounds. Conventional trigations collutions are physiologic fluids such as saline or lactated Ringer's solution, which do not provide the beneficial effects of the composition of the invention. Because the composition of the invention agents are present at very low concentrations; meaning that the active side effects associated with systemic administration of the same agents are minimised. Sequences AAY97941-Y97944 represent examples of bradykinin 2 (BK2) receptor antagonists that may be used in the compositions of the invention. irrigation solution in arthroscopy, cardiovascular and general

Note: This sequence is not given in the specification, but is derived from the sequence of bradykinin and the information provided on page 23.

Sequence 9 AA;

AAY97941 Length: 9 December 11, 2003 07:10 Type: P Check: 3402

1 RPPGFSFFR

! AA SEQUENCE 1.0

AAY77218 standard; peptide; 9 AA

AAY77218;

(first entry) 22-MAY-2000

Bradykinin.

Schiff base condensation adduct, aromatic o-hydroxyaldehyde; biologically active polypeptide; stabilisation; bradykinin, autocoid; inflammation disorder; asthma; vasodilation; agonist;

Mammalia.

antagonist.

WO200000507-A1

06-JAN-2000.

99WO-IB00993 02-JUN-1999; 98US-0090714. 26-JUN-1998;

(PFIZ) PFIZER PROD INC.

Clark MT; Hay BA, WPI; 2000-170904/15.

useful as High yield production of Schiff base adducts from proteins, a growth promoter, by reaction with aromatic o-hydroxyaldehyde

Claim 4; Page 62; 78pp; English.

animals. Any one of many hundreds of polypeptides, with a wide variety of pharmaceutical activities, can be converted. The method reproducibly provides almost quantitative conversion of polypeptide and aromatic o-hydroxyaldehyde to product, without problems of sublimation, as encountered when other aldehydes are used. The method is suitable for The invention relates to improved production of a Schiff base condensation adduct final product, from a polypeptide with a beneficial activity in animals and an aromatic o-hydroxyaldehyde. The reaction by weight based on reactants. The polypeptide and aromatic o-hydroxyaldehyde are combined in aqueous medium at pH 7 or more, and the reaction is driven to completion by removing 97-99.98 (preferably 98-99%) by weight of the water that is present initially and produce during the reaction, provided that integrity of the product and during the reaction, provided that integrity of the product and reactants is maintained. The Schiff base condensation adduct products represent stabilised forms of biologically active polypeptides which are useful in human or veterinary medicine and for promoting growth in

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animals. Any one of many hundreds of polypeptides, with a wide variety of pharmaceutical activities, can be converted. The method reproducibly provides almost quantitative conversion of polypeptide and aromatic o-hydroxyaldehyde to product, without problems of sublimation, as encountered when other aldehydes are used. The method is suitable for commercial scale operation. The products of the process of the invention
                are more stable and easier to handle than free polypeptides. Sequences AVY77213-477231 represent peptides which may be modified according to the process of the invention. Peptides AVI718-477224 are autocoids, or autocoid agonists/ antagonists. Autocoids such as bradykinin and kallidin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to improved production of a Schiff base condensation adduct final product, from a polypeptide with a beneficial activity in animals and an arcmatic o-hydroxyaldehyde. The reaction furnishes a yield of the product of at least 98.5% (particularly 99.5%) by weight based on reactants. The polypeptide and aromatic o-hydroxyaldehyde are combined in aqueous medium at pH 7 or more, and the reaction is driven to completion by removing 97-99.9% (preferably 99-99%) by weight of the water that is present initially and produced during the reaction, provided that integrity of the product and reactants is maintained. The Schiff base condensation adduct products represent stabilised forms of biologically active polypeptides which are useful in human or veterinary medicine and for promoting growth in
                                                                                              are produced by proteolytic reactions in response to inflammatory events and act locally to produce pain, vasodilation, increased vascular permeability and prostaglandin synthesis.
commercial scale operation. The products of the process of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Schiff base condensation adduct; aromatic o-hydroxyaldehyde;
biologically active polypeptide; stabilisation; bradykinin;
autocoid; inflammation disorder; asthma; vasodilation; agonist;
                                                                                                                                                                                                                    December 11, 2003 07:10 Type: P Check: 3472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           High yield production of Schiff base adducts from proteins, ugrowth promoter, by reaction with aromatic o-hydroxyaldehyde
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 4; Page 62; 78pp; English.
                                                                                                                                                                                                                                                                                                 !!AA_SEQUENCE 1.0
ID _AAY77223 standard; peptide; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98US-0090714.
                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-170904/15
                                                                                                                                                                                                                                                                                                                                                                                                                                            [D-Phe7]-bradykinin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Clark MT;
                                                                                                                                                                                                                      AAY77218 Length: 9
                                                                                                                                                                              9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200000507-A1
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                                                                                                                                                                                                                                                                                                                                                                                                    22-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     06-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antagonist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mammalia.
Synthetic.
                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                              AAY77223;
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88888888888888
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are more stable and easier to handle than free polypeptides. Sequences AM777213-477231 represent peptides which may be modified according to the process of the invention. Peptides AM77218-477224 are autocoids, or autocoid agonists/ antagonists. Autocoids such as bradykinin and kallidin are produced by proteolytic reactions in response to inflammatory events and act locally to produce pain, vasodilation, increased vascular permeability and prostaglandin synthesis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tumour site by hot temperature and administering vascular endothelial eachl growth factor (VEF) antagonist.

The method is useful for the treatment of various cancers. The VEGF/VPF antagonist has cytostatic activity and is a tumourigenesis inhibitor. Proliferation of the tumour is suppressed effectively. AAY57612 to AAY57614 represent specifically claimed human VEGF/VPF peptides. AAY57615 to AAY57679 represent human VEGF-121 peptides used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Thermotherapy for treatment of various cancers - involves destroying the tumor site by hot temperature and inhibiting angiogenesis effect by VBGF/VPF antagonist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A thermotherapy method has been developed which involves destroying the
                                                                                                                                                                                                                                                                                                                                                                                                   Human, vascular endothelial cell growth factor, VEGF, VPF, VEGF-121,
vascopermeability factor, tumour; monoclonal antibody, thermotherapy,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Check: 3548
                                                                                                                                                                           December 11, 2003 07:10 Type: P Check: 3402
                                                                                                                                                                                                                                                                                                                                                                                                                                cancer; angiogenesis; cytostatic; tumourigenesis; inhibition; proliferation; suppression; antitumour.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                    Human VEGF/VPF peptide SEQ ID NO:1.
                                                                                                                                                                                                                                               | | AA SEQUENCE 1.0
ID AAY57612 standard; Peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    !!AA_SEQUENCE 1.0
ID AAY58054 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 3; Page 2; 8pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (TOAG ) TOA GOSEI CHEM IND LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98JP-0134665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98JP-0134665
                                                                                                                                                                                                                                                                                                                                  (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            of the present invention
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                                                                                                                                                                           AAY77223 Length: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length: 9
                                                                                                                                        9 AA;
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                                                                                                                                                                                                           RPPGFSFFR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JP11310537-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               27-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-NOV-1999.
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                                                                                                                                          Seguence
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This sequence is a fragment of human vascular endothelial cell growth identify the site at which an anti-VRGF antibody binds to VRGF. The antibody is used in the method of the invention, which relates to the use of an angiogenesis inhibitor. The inhibitor contains a VRGF antigonist (preferably the anti-VRGF antibody) and minocycline. The angiogenesis inhibitor can be used as a therapeutic agent against tumours. The inhibitor can also be used as a therapeutic agent against tumours. The angiogenic diseases such as diabetic retinopathy and aging muscular angiogenic Diseases such as rheumatoid arthritis, psoriasis, Kaposi's sarcoma, and arteriosclerosis, can also be treated using the angiogenesis inhibitor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Neurotensin analogue; neo-tryptophan; neurotensin response; antinociception; hypothermia; appetite reduction; body weight reduction; weight gain reduction; catalogsy; central nervous system; schizophrenia; antipsychotic effect; CNS stimulant; therapy; bradykinin.
Vascular endothelial cell growth factor; vessel permeability factor; VPF; angiogenesis inhibitor; minocycline; tumour; diabetic retinopathy; intraocular angiogenic disease; aging muscular degeneration; psoriasis; rhemmatoid arthritis; Kaposi's sarcoma; cancer; arteriosclerosis; VEGF.
                                                                                                                                                                                                                                                                                                        Angiogenesis inhibitor for treating tumours and cancers - contains vascular endothelial cell growth factor or vessel permeability factor antagonist and minocycline as active ingredient
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Check: 3548
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bradykinin peptide analogue Brdyl.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAY59374 standard; peptide; 9 AA
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                                                                                                                                                                                                                                          (TOAG ) TOA GOSEI CHEM IND LID
                                                                                                                                                                                                                                                                                                                                                                        Claim 3; Page 2; 8pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98US-0081356.
98US-0092195.
98US-0098119.
                                                                                                                                                                                98JP-0129646.
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Modified-site
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09-JUL-1998;
27-AUG-1998;
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                                                                                                                                                                                22-APR-1998;
                                                                                                                                                                                                              22-APR-1998;
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                                                                                                                                                02-NOV-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAY59374;
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This sequence represents a angiotensin analogue. The invention relates to the new amino acid neo-tryptophan. Polypeptides containing neo-tryptophan are useful for inducing a neurotensin response in mammals, particularly humans. The response comprises antinociception, hypothermia, a reduction in appetite, a reduction in body weight gain, prevention or reduction of catalepsy, reduction of an effect of a central nervous system (ONS) stimulant, an antipsychotic effect (particularly reduction of the signs or symptoms of schizophrenia) or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chimeric, pan DR epitope, expression vector, promoter; major histocompatibility complex; MHC; targetting; peptide; epitope, antiden; presentation, class I ; cytosolic pathway; endoplasmic reticulum; class II; extracellular antiden; endocytic pathway; helper I lymphocyte; HTL; universal epitope; cytotoxic T lymphocyte; CTL; immune response; immunogenicity; assay; vaccine; immunity; infection; pathogen; virus; HIV; HBV; HCV; hepatitis B; hepatitis C; bacterium; protozoan; tumour cell; autoimmune disease; activation; antiviral; antimalarial;
                                                                                                                                                                                                                                                                                                                                        interaction with a neurotensin receptor (particularly rat neurotensin receptor or human neurotensin receptor).
                                                              BM,
                                                              Tyler
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hepatitis B virus (HBV)-derived MHC class I (CTL) epitope, #190
                                                                                                                                                                                                                                                                                                                                                                                                                       Check: 3557
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                                                                                                                                        Neo-tryptophan, its derivatives and polypeptides containing
                                                              Faug A,
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                                                              McCormick DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ishioka GY,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequence, used as, e.g. tumor vaccines
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                                                            Pang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 !!AA_SEQUENCE 1.0
ID AAY73032 standard; Peptide; 9 AA.
                                                                                                                                                                                     Claim 7; Page 19; 65pp; English
98US-0112137.
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                                                            Cusack BM,
                              (MAYO-) MAYO FOUNDATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (EPIM-) EPIMMUNE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-039103/03.
                                                                                                         WPI; 2000-061969/05.
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Hepatitis b virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 immunoprotective
                                                                                                                                                                                                                                                                                                                                                                                        9 AA;
                                                                                                                                                      neo-tryptophan
                                                                                                                                                                                                                                                                                                                                                                                                                                                    RPPGWSPFR
                                                            Richelson E,
Boules M;
 14-DEC-1998;
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Chesnut RW;
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                                                                                                                                                                                                                                                                                                                                                                                          Sequence
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invention.

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class I (CTL) epitopes which are claimed for use in the present invention. The invention relates to a novel expression vector comprising a promoter operably linked to a fusion gene encoding a major histocompatibility complex (MRC) targetting sequence, and two or more heterologous peptide epitopes. The MRC targetting sequence may be a cycosolic pathway or to the endoplasmic reliculum, or an MRC class I targetting sequence, which directs an MRC class I epitope to a cycosolic pathway or to the endoplasmic reliculum, or an MRC class II targetting sequence, which directs extracellular antigens to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Il targetting sequence, which directs extracellular antigens to enter the endocytic pathway to be processed into antigen peptides for presentation on MHG class II and-ecules. The heterologous epitopes may comprise either helper T lymphocyte (HTL) epitopes, or a cytotoxic T lymphocyte (CTL) epitope and a universal HTL for souch as a pan DR epitope (PADRE). The vectors are useful for stimulating an immune response in vivo, as well as for use in assaying the human mammal. They provide a nucleic acid vaccine for enhancing immunity against infectious pathogens, such as viruses (e.g., HIV, hepatitis B (HBV and hepatitis C (HCV)) bacteria, processo (e.g., plasmodium falciparum, the cause of malaxia) and also tumour cells and
                                                                                                                                                                                                                                                                                                                                                                            Sequences AAY72998-Y73086 represent hepatitis B virus (HBV)-derived MHC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     autoimmune diseases. Universal MHC class II epitopes are advantageously combined with other MHC class I and class II epitopes to increase the number of cells that are activated in response to a given antigen and provide a broader population coverage of MHC-reactive alleles.
                Claim 11; Page 65; 130pp; English.
\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset{\times}{\times}\overset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9 AA; Sequence

Check: 3378 December 11, 2003 07:10 Type: P AAY73032 Length: 9

KVFVLGGCR

!!AA_SEQUENCE 1.0 ID ABJ15169 standard; Peptide; 9 AA Immunogenic HIV peptide #29 (first entry) 02-JAN-2003 ABJ15169;

HIV; gene therapy, vaccine; immunogenic HIV peptide; cytotoxic T lymphocyte; HIV infection.

Human immunodeficiency virus

WO200269691-A2.

12-SEP-2002

01-MAR-2002; 2002WO-US06314.

01-MAR-2001; 2001US-272565P.

SU (HSSU)

(USSH) US DEPT HEALTH & HUMAN SERVICES (UYER-) UNIV BROWN RES FOUND.

Degroot A;

Pau C,

Sriwanthana B,

Bond K,

Mcnicholl JM,

WPI; 2002-750429/81.

or more epitopes immunoreactive New immunogenic HIV peptide having one or more epitopes immunorea with cytotoxic I lymphocytes, useful for diagnosing, treating and monitoring HIV infection in humans -

Claim 6; Page 43; 65pp; English.

The invention comprises immunogenic HIV peptides which contain one or more epitopes that are immunoreactive with cytotoxic T lymphocytes from an HIV-positive individual. The immunogenic HIV peptides of the invention are useful for diagnosing, tracting and monitoring HIV infection. The present amino acid sequence represents an immunogenic HIV peptide of the

The invention relates to decoy peptides, inhibiting or reducing aggregation of polyglutamine-containing proteins. The decoy peptides and the methods are useful for treating Huntington's disease, spinobulbar muscular atrophy, dentatorubral pallidoluysian atrophy, spinocerebellar ataxia types 1, 2, 3 (Machado-Joseph disease), 6 and 7, Parkinson's disease, dementia with Lewy bodies, Lewy body variant of Alzheimer's disease, multiple system atrophy, Hallervorden-Spatz disease, Creutzfeldt-Jakob disease, variant Creutzfeldt-Jakob disease, variant Creutzfeldt-Jakob disease, variant Creutzfeldt-Jakob disease, bovine spongiform encephalopathy and scrapie. The present sequence is a decoy peptide. note= "N-methyl alanine; This residue is shown as X in /note= "N-methyl alanine, This residue is shown as X in the specification" 'note= "N-methyl alanine; This residue is shown as X in Decoy peptide; polyglutamine-containing protein; Huntington's disease; spinobulbar muscular atrophy; dentatorubral pallidoluysian atrophy; spinocerebellar ataxia; Parkinson's disease; multiple system atrophy; Alzheimer's disease; Lewy body; Hallervorden-Spatz disease; nootropic; Creutzfeldt-Jakob disease; boyine spongiform encephalopathy; dementia; New decoy peptides inhibiting or reducing aggregation of polyglutamine-containing proteins, useful for treating Huntington's disease, Alzheimer's disease, Parkinson's disease, scrapie, and other neurodegenerative diseases ABJ15169 Length: 9 December 11, 2003 07:10 Type: P Check: 3503 Bankston J, Thumfort P, Blanchard BJ; 'note= "N-terminal acetyl" /note= "C-terminal amide" scrapie; neuroprotective; anticonvulsant. (MASI) MASSACHUSETTS INST TECHNOLOGY Location/Qualifiers the specification" the specification" Ā Claim 8; Page 41; 71pp; English. !!AA_SEQUENCE 1.0 ID AAE26923 standard; peptide; 9 11-FEB-2002; 2002WO-US04060 09-FEB-2001; 2001US-267898P. (first entry) Decoy peptide, HDP89. WPI; 2002-666988/71. 9 AA; RPGNFPQSK WO200264619-A2 Modified-site Modified-site Modified-site Modified-site Modified-site Unidentified 13-DEC-2002 22-AUG-2002. Sequence Ingram VM, AAE26923; SXS 37

ABJ06426 standard; Peptide; 9 AA.

!! AA SEQUENCE 1.0

HLFGYSWYK

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The invention relates to a composition (I) comprising an immune effector cell and a cell penetrating peptide (CPP) associated with an antigen or antibody. Also included are (1) a vaccine comprising (I), CPP associated with an antigen, and a pharmaceutically acceptable carrier and (2) preparing a composition for a disease, by providing (I) and CPP associated CPP to (I), where antigen enters into the cell.

CC antigen-associated CPP to (I), where antigen enters into the cell.

CT The antigens are, for example, tumour antigen derived epitopes recognised by tumour infiltrating lymphocytes (TLL) of HLA (human recognised by tumour infiltrating lymphocytes (TLL) of HLA (human leukocyte antigen) class I or II. The composition is useful for enhancing immunity in an animal to a disease, by administering a mature dendritic cell comprising CPP associated with an antigen to disease, to the animal, where the animal comprises both CD4 and CD8 + T cells: It is also useful for treating a disease (e.g. cancer, tumour, melanoma, leukaemia, lymphoma, sarcoma, lung cancer, cervical cancer, pladdsin's lymphoma, uterine cancer, cervical cancer, bladder cancer, kidney cancer and pancreatic cancer, the animal is further subjected to a cancer treatment including surgery, radiation, chemotherapy or gene therapy The administration of (I), preferably dendritic cell is prior to concurrent with, the cancer treatment. The present sequence is a tumour antigen derived epitope for inclusion in the sequence is a tumour antigen derived epitope for inclusion in the composition of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel composition for treating a disease in an animal, comprises an immune effector cell and cell penetrating peptide associated with an
                                                                                                                                                                                                                                                                                                                  Cell penetrating peptide; cancer; tumour; melanoma; thymoma; antigen lymphoma; sarcoma; lung cancer; non-Hodgkin's lymphoma; letkaemia; Hodgkin's lymphoma; uterine cancer; cervical cancer; bladder cancer; kidney cancer; adenocarcinoma; breast cancer; prostate cancer; ovarian cancer; pancreatic cancer; epitope; vaccine; dendritic cell; tumour infiltrating lymphocyte; TIL; human leukocyte antigen; HLA;
                                          Check: 3345
                                                                                                                                                                                                                                                                            Human CEA class I HLA widely expressed antigen peptide #2.
                                          December 11, 2003 07:10 Type: P
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                                                                                                                                                ABG79074 standard; Peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BAYU ) BAYLOR COLLEGE MEDICINE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-FEB-2002; 2002WO-US05212
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                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  antigen or antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                       cytostatic; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9 AA;
                                       AAE26923 Length: 9
9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200264057-A2
                                                                                    KQAQAQAQK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                          !! AA SEQUENCE 1.0
                                                                                                                                                                                                                                       15-NOV-2002
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  Sequence
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ABG79074 Length: 9 December 11, 2003 07:10 Type: P Check: 3657

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hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection. The present sequence is a peptide described in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                 invention relates to a composition comprising at least one virus epitope. This can be used in the production of a use in preventing or treating hepatitis B virus infection.
                                                                                                                                                                                                                                                                                                                                         Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hepatitis B virus; HBV; epitope; vaccine; HBV infection; hepatitis; virucide; hepatotropic; antiinflammatory.
                                                                    epitope, vaccine, HBV infection, hepatitis; antiinflammatory.
                                                                                                                                                                                                                                                                         Southwood S, Vitiello MA, Livingstone BD; Grey HM, Chesnut RW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABJ06426 Length: 9 December 11, 2003 07:10 Type: P Check: 3378
                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 124; 228pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hepatitis B virus epitope #2262.
                                               Hepatitis B virus epitope #644.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-NOV-2002 (first entry)
                       (first entry
                                                                        Hepatitis B virus; HBV;
                                                                                     hepatotropic;
                                                                                                                                                                                                                                                                                                                                                                     a HBV peptide epitope
                                                                                                                                                                                                                                          (EPIM-) EPIMMUNE INC. (SETI/) SETIE A.
                                                                                                                                                                                                                                                                               Sidney J,
Kubo RT,
                                                                                                                                                                                                                                                                                                                    WPI; 2002-643192/69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hepatitis B virus.
                                                                                                            Hepatitis B virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 9 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                     The present in hepatitis B vaccine for u
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                         14-NOV-2002
                                                                                                                                                                 14-MAR-2002.
                                                                                                                                                                                                                                                                                                                                                         infection,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          invention.
                                                                                       virucide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABJ08044;
                                                                                                                                                                                                                                                                                Sette A,
Celis E,
ABJ06426,
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BD;

Livingstone

Southwood S, Vitiello MA, Grey HM, Chesnut RW;

EPIMMUNE INC

(EPIM-) (SETT/)

SETTE A.

the

Check: 3378

December 11, 2003 07:10 Type: P

9 AA;

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The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection. The present sequence is a peptide described in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises a HBV peptide epitope
                                                                                                                                                                                          The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection. The present sequence is a peptide described in the exemplification of invention.
                                                                                                       Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises a HBV peptide epitope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hepatitis B virus; HBV; epitope; vaccine; HBV infection; hepatitis; virucide; hepatotropic; antiinflammatory.
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                                                                                                                                                                   Disclosure; Page 158; 228pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hepatitis B virus epitope #2657.
                                                                                                                                                                                                                                                                                                                                                             !!AA_SEQUENCE 1.0
ID ABJ08439 standard; Peptide; 9
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Kubo RT,
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                                          Sidney J,
Kubo RT,
                                                                                 WPI; 2002-643192/69
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                                                                                                                                                                                                                                                                                                       ABJ08044 Length: 9
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Celis B,
                                          Sette A,
Celis E,
                                                                                                                                                                                                                                                                                                                                                                                                       ABJ08439;
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                                                                                                                                                                                                                                                                              Sequence
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(first entry)

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The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection. The present sequence is a peptide described in the exemplification of the
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                                                                                                                                                                                                                                                             Hepatitis B virus; HBV; epitope; vaccine; HBV infection; hepatitis; virucide; hepatotropic; antiinflammatory.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Livingstone BD;
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!!AA_SEQUENCE 1.0
ID _ABJ09442 standard; Peptide; 9 AA.
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                                                                                                                                                                                                         Hepatitis B virus analogue #54.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (EPIM-) EPIMMUNE INC (SETT/) SETTE A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sidney J,
Kubo RT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-643192/69
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Celis E,
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                                                                                        ABJ09442
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Southwood S, Vitiello MA, Livingstone 3rey HM, Chesnut RW;

Grey HM,

Type: P Check: 3378

ABJ08439 Length: 9 December 11, 2003 07:10

KVFVLGGCR

9 AA;

Bradykinin; BK-2 receptor; G-protein coupled receptor; therapy;

seven transmembrane domain

Unidentified

US6407207-B1

18-JUN-2002

92US-0860709. 93US-0148708

Check: 3469

Type: P

2003 07:10

08-NOV-1993; 30-MAR-1992;

Bradykinin, a hormonal nonapeptide

(first entry)

04-NOV-2002

AAE25674;

l S, Vitiello MA, Livingstone BD; Chesnut RW;

AAE25674 standard; peptide; 9 AA.

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The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection. The present sequence is a peptide described in the exemplification of the
                                                                                                                                                                 The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection. The present sequence is a peptide described in the exemplification of the
                                                                            Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises a HBV peptide epitope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises a HBV peptide epitope
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                                                                                                                                        Disclosure; Page 189; 228pp; English.
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                                                                                                                                                                                                                                                                                                                                     SEQUENCE 1.0
ABJ09770 standard; Peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Hepatitis B virus epitope #3722.
                Southwood
                                                                                                                                                                                                                                                                                December 11,
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                             Grey HM,
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              Sidney J,
Kubo RT, (
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Kubo RT,
                                                       WPI; 2002-643192/69
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hepatitis B virus
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                                                                                                                                                                                                                                                       9 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9 AA
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                                                                                                                                                                                                                           invention.
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Celis E,
              Sette A,
Celis E,
                                                                                                                                                                                                                                                                                                                                                                               ABJ09770;
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    .2
    /note= "Bradykinin is cleaved between these two residues

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to human bradykinin BK-2 receptor protein cloned from human lung fibroblast cell line. The invention also relates to a cDNA clone encoding BK-2 that has the characteristics of a seven transmembrane domain G-protein coupled receptor. BK-2 receptor protein is useful for inhibiting the binding of bradykinin to human bradykinin BK-2 receptor, and for treating diseases or disorders associated with bradykinin elicited responses. It is also useful for assisting in the discovery of therapeutic compounds that act as antagonists or as an agonist of human BK-2 receptors. The present sequence is a hormonal nonapeptide, bradykinin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  vasopeptidase inhibitor; dipeptidyl peptidase IV; aminopeptidase P;
DPP IV; aminopeptidase P; APP; hypertension; diabetes; cardiac disease;
renal disease; bradykinin.
                                                                                                                                                                                                                                                                                                                                                                        Novel human bradykinin BK-2 receptor protein cloned from human lung fibroblast cell line useful to screen for pharmaceutical agonists or antagonists which bind to or interact with BK-2 bradykinin receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; angiodemic condition; angiotensin converting enzyme; ACE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Check: 3472
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                                                                                                                                                                                                                                                                                                                      RW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure, Column 21, 19pp, English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                   Hess JW,
                                                                                                                                                                                                                                                                                         & CO INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9 AA;
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                                                                                                                                                                                                                                                                                                                    Borkowski JA,
                                                                                                                                                                                                                                                                                         (MERI ) MERCK
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                                                                                                                                                                                                                                                                                                                                                                                                                     protein
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Check: 3378

Type: P

1 KVFVLGGCR

!!AA_SEQUENCE 1.0

Pharmaceutical composition useful for treating cancer, comprises nucleic acid molecule encoding tumor associated antigen and peptide comprising a region corresponding to epitope of tumor associated

Disclosure; Page 28; 34pp; English.

(UYZU-) UNIV ZUERICH INST MEDIZINISCHE VIROLOGIE.

09-JAN-2002; 2002EP-0000185 L6-JAN-2001; 2001EP-0100914.

17-JUL-2002.

Pavlovic J;

Moelling K, Nawrath M,

WPI; 2002-610269/66

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The invention comprises a method of identifying a subject that is susceptible to developing angiodemic conditions during a course of treatment. The method of the invention involves administering an angiotensin converting enzyme (ACR) inhibitor a vasopeptidase inhibitor and determining dispetidy, peptidase IV (DPP IV) enzyme activity or aminopeptidase P (APP) enzyme activity. The method of the invention is useful for identifying/diagnosing susceptibility to developing angiodemic conditions during a course of treatment involving the administration of an ACE inhibitor or a vasopeptidase inhibitor. The method is particularly useful during the treatment of a subject that is
                   4. .5 /note= "Bradykinin is cleaved between these two residues by Neutral Endopeptidase (NEP)"
                                                                                 these two residues
                                                                                                                 7 .8
/note= "Bradykinin is cleaved between these two residues
                                                                                                                                                                                            between these two residues N) "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in need of or taking an ACE inhibitor and/or a vasopeptidase inhibitor, which are commonly used in the treatment of hypertension, diabetes, cardiac disease and renal diseases. The present amino acid sequence
                                                                                                                                               by Angiotensin Converting Enzyme (ACE) and Neutral Endopeptidase (NEP)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Diagnosing susceptibility to developing an angiotensin converting acrywe (ACB) inhibitor- or a vasopeptidase inhibitor-associated angioedema, by measuring levels of dipeptidyl peptidase IV or aminopeptidase Penzyme activities
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Check: 3472
                                                                               /note= "Bradykinin is cleaved between
by Angiotensin Converting Enzyme (ACE)
Dipeptidyl Peptidase IV (DPPIV)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Type: P
                                                                                                                                                                                            /note= "Bradykinin is cleaved
by Kinase I (Carboxypeptidase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          represents a human bradykinin peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Fig 4A; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAO18872 standard; Peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                       31-OCT-2000; 2000US-244524P.
                                                                                                                                                                                                                                                                                                                                                                     (UXVA-) UNIV VANDERBILT
                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-627422/67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAO15553 Length: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9 AA;
                                                                                                                                                                                                                                            WO200259343-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RPPGFSPFR
                   Cleavage-site
                                                                    Cleavage-site
                                                                                                                 Cleavage-site
                                                                                                                                                                              Cleavage-site
                                                                                                                                                                                                                                                                                                          31-OCT-2001;
                                                                                                                                                                                                                                                                            01-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                       Brown NJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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The present invention relates to a pharmaceutical composition which comprises a nucleic acid molecule encoding a tumour-associated antigen and at least one peptide comprising a region corresponding to a putative cytotoxic T cell, helper T cell or B cell epitope of a tumour-associated antigen and/or cells pulsed with such peptide(8). In particular, the tumour-associated antigen may be gplu0. The composition is useful for the treatment of cancer, especially melanoma. The present sequence is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               substrate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present sequence represents bradykinin (BK). BK is a model substrate of a novel niric oxide synthase, designated nNOS-II. This constitutive nitric oxide synthase (NOS) utilises both L-arginine and arginine-rich peptides, oligopeptides, or proteins as substrates in the synthesis of nitric oxide (NO). BK is used in the method of the invention. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Method for controlling nitric oxide production comprises administration of an arginine-rich peptide, oligopeptide or protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   substrate; nitric oxide synthase; NOS; nNOS-II;
                                                                                                                                                                                                                                                                                                                                                                                                           Check: 3657
                                                                                                                                                                                                                                                                                                                                                                                                         Type: P
                                                                                                                                                                                                                                                                                                                                                                                                        AAO18872 Length: 9 December 11, 2003 07:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Amino acid sequence of bradykinin (BK)
                                                                                                                                                                                                                                                                                                                                                    human CEA27 protein T cell epitope
                                                                                                                                                                                                                                                                                                                                                                                                                                                           !!AA_SEQUENCE 1.0
ID ABB78180 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 2; Page 5; 26pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           99US-0225426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ROSA/) ROSAZZA J P N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chen Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-582923/62.
                                                                                                                                                                                                                                                                                                                                                                               9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JS2002076782-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHEN/) CHEN Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                   1 HLFGYSWYK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bradykinin; Bř
nitric oxide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rosazza JPN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          05-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   )5-JUL-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABB78180
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Human; gp100; cancer; vaccine; melanoma; tumour-associated antigen; cytostatic; T cell epitope; CEA27.

Homo sapiens EP1222928-A2

Human CEA27 T cell epitope

(first entry)

29-OCT-2002

2000US-0748783 2000US-0748793

Aebersold RH;

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Identifying polypeptide, involves determining mass or other characteristics of polypeptides, comparing them to an annotated polypeptide index, and identifying a polypeptide having the identified
                                                                                                                         (SYST-) INST SYSTEMS BIOLOGY (UNIW ) UNIV WASHINGTON.
                                                                    21-DEC-2001; 2001WO-US50403
                                                                                                                                                                               WPI; 2002-583574/62
                          WO200252259-A1
                                                                                                                                                          Goodlett DR,
                                                                                                    26-DEC-2000;
                                                                                          26-DEC-2000;
                                                04-JUL-2002
     Synthetic.
    specification describes a method for controlling nitric oxide production. The method comprises administration of an arginine-rich peptide, oligopeptide or protein. The method is useful for controlling nitric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABB78181-89 represent peptides which are derived from bradykinin (BK). BK is a model substrate of a novel nitric oxide synthase, designated nNOS-II. This constitutive nitric oxide synthase (NOS) utilises both L-arginine and arginine-rich peptides, oligopeptides, or proteins as substrates in the synthesis of nitric oxide (NO). BK is used in the method of the invention. The specification describes a method for controlling nitric oxide production. The method comprises administration of an arginine-rich peptide, oligopeptide or protein. The method is useful for controlling nitric oxide production.
                                                                                                                                                                                                                                                                                                                                                                                                                                               Method for controlling nitric oxide production comprises administration
                                                                                                                                                                                                                        substrate; nitric oxide synthase; NOS; nNOS-II;
                                                                               Check: 3472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    December 11, 2003 07:10 Type: P Check: 3465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Protein identification; polypeptide identification index;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Polypeptide identification method associated peptide #19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          of an arginine-rich peptide, oligopeptide or protein
                                                                             December 11, 2003 07:10 Type: P
                                                                                                                                                                                                  of peptide [Lys1]-BK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               !!AA_SEQUENCE 1.0
ID ABG69693 standard; Peptide; 9 AA.
                                                                                                                      _seQUENCE 1.0
_ABB78186 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2; Page 5; 26pp; English
                                                                                                                                                                                                                                                                                                                         99US~0225426.
                                                                                                                                                                                                                                                                                                                                              96US-0675821.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                   ROSA/) ROSAZZA J P N.
                                                                                                                                                                                                                                                                                                                                                                                                   Rosazza JPN, Chen Y;
                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-582923/62.
                                                                                                                                                                                                   Amino acid sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            proteome analysis
                                    oxide production
                                                                                                                                                                                                                        Bradykinin; BK; s
nitric oxide; NO
                                                        9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABB78186 Length: 9
                                                                              ABB78180 Length: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9 AA;
                                                                                                                                                                                                                                                                              US2002076782-A1.
                                                                                                                                                                                                                                                                                                                                                                               CHEN Y.
                                                                                                    1 RPPGFSPFR
                                                                                                                                                                                                                                                                                                                                              05-JUL-1996;
                                                                                                                                                                                                                                                                                                                         35-JAN-1999;
                                                                                                                                                                              05-NOV-2002
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                                                                                                                                                                                                                                                                                                    20-JUN-2002
                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                        ABB78186;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABG69693;
                                                          Seguence
                                                                                                                                                                                                                                                                                                                                                                               CHEN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0000x8
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cor determining two or more characteristics (including mass) associated with the polypeptide or its fragment, comparing the mass or characteristic to an annotated polypeptide including mass or characteristic to an annotated polypeptide including mass or characteristics. The method of the index having the same mass or daracteristics. The method of the invention is useful for identifying a polypeptide and to polypeptide in the sample.

Another method of the invention is useful for identification index: The generated polypeptide identification index: The generated polypeptide identification index is useful for identification index. The generated polypeptide identification index is useful for identifixing a polypeptide. The methods of the invention are rapid, efficient and cost effective for protecome analysis. The method is suitable for rapid and efficient identification of one or more used selective isolation polypeptide fragments containing specific structural features, which can be exploited by tagging the specific chemical reagents. The affiliative selection of tagged fragments in a complex sample, the handling in the method can be readily used in a variety of laboratory settings, and can be performed in a single stage mass analysis, which is fast, simple and sensitive. The method can be used to accurately measure broaded the sample has been modified with a stable isotope label.

Moreover, the method has an essentially unlimited sample capacity, assuring the possibility of analysing polypeptides of low abundance, and have a high peak capacity allowing for analysis of very complex samples. The present esquence represents a protein identification method
                                                                                             This invention relates to a novel method for identifying a polypeptide. The method involves simultaneously determining the mass of a subset of parent polypeptides (or its fragment) from a population of polypeptides or determining two or more characteristics (including mass) associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; tryptic digest peptide, KRPI; kidney response, KR; nephrotropic kidney response-associated protein isoform; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABG69693 Length: 9 December 11, 2003 07:10 Type: P Check: 3566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human KRPI tryptic digest peptide #101.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    associated peptide of the invention
Example 4; Page101; 146pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABP61650 standard; Peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  !! AA_SEQUENCE 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABP61650;
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Homo sapiens

antisense therapy; kidney function; tubular nephritis; renal failure; nephron cell metabolic pathway modulation; glomerular necrosis; papillary necrosis. Kelly MD, Kennedy SJ, Moyses C; (OXFO-) OXFORD GLYCOSCIENCES UK LTD. 24-DEC-2001; 2001WO-GB05777. 29-DEC-2000; 2000US-260392P. WPI; 2002-583637/62 WO200254081-A2 Homo sapiens 11-JUL-2002 Holt GD, subject KAKAKA KANAN KANAN

Screening, diagnosis or prognosis of kidney response in subject, is detecting kidney response-associated features or kidney response-associated protein isoforms in body fluid or tissue from

Disclosure, Page 43; 168pp; English.

The invention relates to a novel method for the screening, diagnosis or prognosis of kidney response (RR). The method of the invention has rephrotropic activity, and may have a use in gene therapy or antisense therapy. The method is useful for the screening, diagnosis or prognosis of KR in a subject, for determining the stage or severity of KR in a subject, for identifying a subject at risk of developing KR, or for monitoring the effect of therapy administered to a subject with KR. An alternative method of the invention is useful for screening agents that interact with one or more of the kidney response associated protein classforms (KRES). The kidney response includes alterations in kidney function, any phase of nephron cell metabolic pathway modulation, glomerular/proximal tubular nephritis, glomerular/papillary necrosis, acute and chronic renal failure, and end stage renal disease. The the KRPIs of the invention.

9 AA; Sequence

Check: 3380 December 11, 2003 07:10 Type: P ABP61650 Length: 9

HAFGAPLTK

AAU99710 standard; Peptide; 9 AA. !!AA_SEQUENCE 1.0

AAU99710;

24-SEP-2002 (first entry)

Human Bradykinin peptide sequence.

systemic inflammation response syndrome; polytrauma; pain; stroke; bone destruction; rheumatoid arthritis; osteoarthritis; asthma; periodontal disease; dysmenorrhoea; premature labour; brain oedema; focal injury; diffuse axonal injury; reperfusion injury; scar formation; cerebral vasospasm; subarachnoid haemorrhage; allergic disorder; adult respiratory distress syndrome; wound healing; appetite; body mass index; bradykinin. Human, angiotensin converting enzyme-2; ACE-2; body weight disorder; muscle mass; body fat; obesity; diabetes; atherosclerosis; weight loss; lipid metabolism; weight gain; anorexia; cachexia; bulimia; sepsis; familial partial lipodystrophy, hypercholesterolaemia, hyperlipidaemia, aberrant metabolic rate, heart failure, left ventricular hypertrophy, neurodegenerative disorder, peptide hormone; cytokine processing; myocardial infarction; cardiomyopathy; inflammatory bowel disease;

The present invention describes a new method of treating a body weight disorder, increasing muscle mass and decreasing body fat by administration of anglotensin converting enzyme (ACE)-2 modulating compound. The invention can be used for treating body weight disorders, particularly obesity of at least grade 1, diabetes, atherosoclerosis and a state associated with lipid metabolism. The method is used for treating rapid weight loss, rapid weight gain, anorexis, cachexia, bulimia, generalised partial lipodystrophy, familial partial lipodystrophy, hypertholesterolaemia, hyperlipidaemia, an aberrant metabolic rate, congestive heart failure, chronic heart failure, chronic heart failure, chronic heart failure, chronic heart failure, strongenerative disorders (e.g. Alzheimer's disease, Parkinson's disease and Huntington's disease), myocardial infarction, cardiomyopathy, systemic inflammation response syndrome, sepais, polytrauma, inflammatory bowel disease, acute and chronic pain, bone destruction in rheumatoid arthritis and osteoarthritis and periodontal disease, dysmenorrhoee, premature labour, brain oedema following focal injury, diffuse axonal injury, stroke, reperfusion injury, cerebral vasospasm after subarachnoid haemorrhage, allergic disorders including asthma, adult respiratory distress syndrome, wound healing and scar formation. The invention decreases the appetite, increases muscle mass and decreases body fat of subject having body mass index of greater than 23 (preferably 24.9) kg/m^2. The present amino acid sequence represents the human bradykinin peptide that was used in the invention for hydrolysis of biologically active peptides by soluble Treating body weight disorder and increasing muscle mass comprises administering angiotensin converting enzyme-2 modulating compound Brown JA; vuld AE, Dales NA, Guan B, Bro Solomon M, Stricker-Krongrad A; Example 18; Page 221; 395pp; English. Gould AE, 01-NOV-2000; 2000US-0704216. 29-MAY-2001; 2001US-0870382. 19-OCT-2001; 2001US-371741P. (MILL-) MILLENNIUM PHARM INC 31-OCT-2001; 2001WO-US45703 Ocain TD, G Kadambi VJ, WPI; 2002-547572/58 WO200239997-A2. human ACE-2. 23-MAY-2002 Acton SL, Patane M,

Sequence 9 AA;

AAU99710 Length: 9 December 11, 2003 07:10 Type: P Check: 3472

1 RPPGFSPFR

!!AA_SEQUENCE 1.0 ID AAE23396 standard; peptide; 9 AA. AAE23396; BXSXAKKKEXBX

Lysine oxidase peptide, P3.

27-AUG-2002 (first entry)

Amino acid oxidase; insect infestation; gene therapy; boll weevil; BWV; corn rootworm; CRW; insecticide; wireworm; WW; Colorado potato beetle; CPB; lysine oxidase; tedanalactam synthase; enzyme.

Unidentified,

US6372211-B1

A new acid protease and its preparation used in flavourings, drugs and 04-SEP-2000; 2000JP-0267678. dairy products KQQAFGYYK dairy product. Unidentified !!AA_SEQUENCE 1.0 21-APR-1998; L9-MAR-2002 Isaac BG, AAU79295;

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Composition for controlling coleopteran insect infestation of plants, such as Diabrotica, Melanotus, Leptinotarsa, or Anthonomus infestation, comprises a lysine oxidase enzyme and a tedanalactam synthase enzyme -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to composition and methods for controlling coleopteran insect infestation of plants, by co-expressing an amino acid oxidase and a second enzyme that provides insecticidal activity when present in a mixture with the amino acid oxidase. Nucleic acid sequences encoding these enzymes are used in gene therapy. The composition is used to control insect infestation of plants. It is used to control coleopteran species Diabrotica, Anthonomus, Melanotus, or Leptinotarsa. It is especially used to control boll weevil (BWW), corn roctworm (CRW), wireworm (WW) or Colorado potato beetle (CPB). The composition can also be used to transform plants that can express the enzymes of the composition. The present sequence is a lysine oxidase peptide used in the isolation and characterisation of the genes encoding a lysine oxidase and a tedanalactam synthase.
                                                                                                                                                                                                                                                                                                                                                                                     Romano CP
                                                                                                                                                                                                                                                                                                                                                                                Purcell JP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 5; Column 24; 77pp; English.
                                                                                                                                                                                                                                                                                (MONS ) MONSANTO TECHNOLOGY LLC
                                                                                          98US-0063733
                                                                                                                                                                                                                                                                                                                                                                                     Greenplate JT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-424731/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9 AA;
16-APR-2002
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AAE23396 Length: 9 December 11, 2003 07:10 Type: P Check: 3526

Maitake acid protease related peptide #3. AAU79295 standard; Peptide; 9 AA. 13-AUG-2002 (first entry)

enzyme; acid protease-specific inhibitor; flavouring; Acid protease;

04-SEP-2000; 2000JP-0267678.

(YUKI-) YUKIGUNI MAITAKE

WPI; 2002-446956/48

Disclosure; Fig 1; 6pp; Japanese.

The invention relates to a maitake acid protease N-terminal peptide, not sensitive to an acid protease-specific inhibitor. The acid protease can be used in flavourings, drugs and dairy products. This sequence

Tissue disorder, response-to-injury process, cell proliferating, hyaluronic acid; HA; receptor for hyalauronan-mediated motility; RHAMN, inflammatory neurological disorder; Parkinson's disease, Alzheimer's disease; arthritis; multiple sclerosis; gastritis; nephritis; inflammatory dermatosis; psoriasis; inflammatory bowel disease; stenosis; restenosis; cancer; kidney fibrosis; inflammatory lung disease; emphysema; asthma; cystic fibrosis; obesity; obesity related disease; lupus; cardiovascular disease; atherosclerosis; wound; scar, diabetes; tissue transplantation; stroke; inflammatory response; fibrotic response; medical implant; Acquired immunodeficiency syndrome; AIDS; hepatitis; myocardial fibrosis; hepatic fibrosis; chronic cystitis; acute mastitis; represents a maitake acid protease related peptide of the invention. Type: P Check: 3472 December 11, 2003 07:10 septic shock; thyroiditis; retinopathy Hyalauronan (HA) binding peptide #26. !!AA_SEQUENCE 1.0 ID _ABG60849 standard; Peptide; 9 AA. 13-AUG-2002 (first entry) AAU79295 Length: 9 9 AA 1 RPPGFSPFR Seguence ABG60849; SXS

WO200228415-A1. 11-APR-2002.

Synthetic.

05-OCT-2000; 2000WO-IB01534 05-OCT-2000; 2000WO-IB01534

(TRAN-) TRANSITION THERAPEUTICS & DIAGNOSTICS IN.

rurley EA,

WPI; 2002-435298/46.

Treating tissue disorder associated with response-to-injury process or proliferating cells in mammals, e.g. fibrosis, inflammation, by administering a compound that alters activity of transition molecules within a cell

Example 24; Fig 26A; 215pp; English.

The invention describes a method of treating a tissue disorder associated with response-to-injury process or proliferating cells in a patient, comprising administering a polypeptide (I) which binds hyaluronic acid (HA), an antibody which binds one of domains D1-D5 of Receptor for hyalauronan-mediated motility (RHAMM), a polypeptide fragment encoding any of D1-D5 of RHAMM, or a vector which expresses antisense KHAMM, antibodies or a polypeptide fragment. The method is useful for treating a catiobdies or a polypeptide fragment. The method is useful for treating a patient with an inflammatory neurological disorder such as Parkinson's disease, Alzheimer's disease, arthritis including rheumatoid arthritis, cesecarthritis, multiple sclerosis, inflammatory demonstrated a stenosis or restenosis, cancer, kidney inflammatory lung disease (e.g. emphysema, asthma, cystic fibrosis, inflammatory lung disease (e.g. emphysema, asthma, cystic disease (e.g. atherosclerosis), and wound especially surgical excision adhesions, to prevent scar and also for treating tissue transplantation capenisms, to prevent scar and also for treating tissue transplantation (e.g. skin grafts), stroke, inflammatory responses or fibrotic response associated with medical implants such as hip implants, vascular wraps and catheters), inflammatory diseases such as hip implants, nephritis, chronic cystitis, acute mastitis, gastritis, nephritis,

hepatitis, septic shock, thyroiditis, and retinopathy. This sequence represents a hyalauronan (HA) binding peptide used in the method of treating a tissue disorder described in the invention. SX3333

9 AA; Sequence Check: 3305 December 11, 2003 07:10 Type: P ABG60849 Length: 9

RGGGGGGGR

ABG60856 standard; Peptide; 9 AA. SEQUENCE

(first entry) 13-AUG-2002 Cellular response to injury associated peptide #10.

Alzheimer's disease; arthritis; multiple sclenosis; gastritis; nephritis; inflammatory dermatosis; psoriasis; inflammatory bowel disease; stenosis; settenosis; cancer; kidney fibrosis; inflammatory lung disease; emphysema; settenosis; cancer; kidney fibrosis; inflammatory lung disease; emphysema; sathma; cystic fibrosis; obesity; obesity related disease; lupus; cardiovascular disease; atherosclerosis; wound; scar; diabetes; tissue transplantation; stroke; inflammatory response; fibrotic response; medical implant; Acquired immunodeficiency syndrome; AIDS; hepatitis; septic shock; thyroiditis; retinopathy. Tissue disorder, response-to-injury process, cell proliferating, hyaluronic acid, HA, receptor for hyaluronan-mediated motility, RHAWM; inflammatory neurological disorder, Parkinson's disease;

Homo sapiens

WO200228415-A1

11-APR-2002.

05-OCT-2000; 2000WO-IB01534.

05-OCT-2000; 2000WO-IB01534

(TRAN-) TRANSITION THERAPEUTICS & DIAGNOSTICS IN.

Cruz TF; Furley EA, WPI; 2002-435298/46.

Treating tissue disorder associated with response-to-injury process or proliferating cells in mammals, e.g. fibrosis, inflammation, by administering a compound that alters activity of transition molecules within a cell

Disclosure, Page 211; 215pp; English.

The invention describes a method of treating a tissue disorder associated with response-to-injury process or proliferating cells in a patient, comprising administering a polypeptide (I) which binds hyaluronic acid (HA), an antibody which binds one of domains D1-D5 of Receptor for hyaluronan-mediated motility (RHAMM), a polypeptide fragment encoding any of D1-D5 of RHAMM, or a vector which expresses antisense RHAMM, antibodies or a polypeptide fragment. The method is useful for treating a patient with an inflammatory neurological disorder such as Parkinson's (e.g. skin grafts), stroke, inflammatory responses or fibrotic response associated with medical implants such as hip implants, vascular wraps and disease, Alzheimer's disease, arthritis including rheumatoid arthritis, obsteoarthritis, multiple sclerosis, inflammatory dermatosis (psoriasis), inflammatory bowel disease, stenosis or restenosis, cancer, kidney fibrosis, inflammatory lung disease (e.g. emphysema, asthma, cystic fibrosis), obesity or obesity related diseases; lupus, cardiovascular disease (e.g. artherosclerosis), and wound especially surgical excision adhesions, to prevent scar and also for treating or preventing diabetes mellitus; The method is also useful for treating tissue transplantation

inflammatory diseases such as AIDS, myocardial and hepatic fibrosis, chronic cystitis, acute mastitis, gastritis, nephritis, hepatitis, septic shock, thyroiditis, and retinopathy. This sequence represents a peptide associated with the method of treating tissue disorders described in the invention catheters), 88868888

9 AA; Seguence

Check: 3589 Type: P December 11, 2003 07:10 Length: 9 ABG60856

KCSVQTLLR

!!AA SEQUENCE 1.0 ID AAU96014 standard; Peptide; 9 AA.

AAU96014;

(first entry) 02-JUL-2002

Carcino embryonic antigen (CEA) immunogenic peptide #1.

Immunogenic peptide; human; major histocompatability complex; human immunodeficiency virus; T cell activation; vaccine; HLA; viral disease; hepatitis B; Epstein-Barr; Lassa fever; papilloma; cytomegalo virus; cancer; lymphoma; prostate-specific antigen; p53; carcino-embryonal antigen; Her2/neu; autoimmune disease; human leukocyte antigen; antibody; CEA; hepatitis C; HIV.

WO200220053-A1.

14-MAR-2002

01-SEP-2000; 2000WO-US24100.

01-SEP-2000; 2000WO-US24100

(EPIM-) EPIMMUNE INC.

Southwood S; Celis E, Sette A, Kubo RT, Grey HM,

WPI; 2002-351744/38.

New immunogenic peptide, useful in vaccines against e.g. viral infection and cancer, induces a cytotoxic T cell response

Claim 1; Page 33; 39pp; English.

This invention relates to a novel composition comprising an immunogenic peptide capable of specifically binding selected human major histocompatability (MRC) class I antigens and inducing T cell activation. The peptides of the invention may also be used, so the invention may also be used to induce an immune response against a desired antigen. The peptides of the invention may be used, as vaccines, to treat or prevent viral diseases may be used, as vaccines, to treat or prevent viral diseases. It is fever, papilloma or cytomegalo viruses); cancers (e.g. of prostate, fever, papilloma or cytomegalo viruses); cancers (e.g. of prostate, fever, rymphona, where associated with expression of prostate-specific antigen, p53, carcino-embryonal antigen or Her2/neu); infection by Mycobacterium tuberculosis and autoimmune diseases. The peptidids are also useful as diagnostic agents, e.g. to predict the outcome of a particular therapy and to identify subjects at risk of developing a chronic infection, also for raising specific antibodies, to potentially useful as diagnostic or therapeutic agents. Nucleic acid sequences that encode the peptides can be used in DNA vaccines. The immunogenic peptides of the invention bind to HLA alleles that are in humans. The present sequence represents an immunogenic peptide of the invention. immunogenic peptides of ely distributed in humans

9 AA; Sequence AAU96014 Length: 9 December 11, 2003 07:10 Type: P Check: 3657

HLFGYSWYK

! ! AA

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combining oligopeptides with silver, scanning silver containing peaks
in optimum collision energies and analysing doublet or triplet peak
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Determining peptide or protein sequence by mass spectrometry by
                                                                                                                                                                                                                                                                 Argentinated peptide; mass spectrometry; silver; sequence determination; peptide sequencing; bradykinin
                                                                                                                                                                                                       Bradykinin peptide used in mass spectrometry method.
SEQUENCE 1.0
ABB08936 standard, peptide, 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-MAR-2000; 2000CA-2302877.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-MAR-2000; 2000CA-2302877
                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lau T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2002-106671/15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Chu IK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (UYYO-) UNIV YORK
                                                                                                                                                                                                                                                                                                                                                       Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                              CA2302877-A1.
                                                                                                                                               18-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Siu KWM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        patterns
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The present sequence represents a bradykinin peptide analysed and sequenced using the method of the invention. The specification describes a novel method of analysing argentinated peptides using mass spectrometry by combining an oligopeptide with silver to provide an argentinated oligopeptide, submitting the sample to a mass spectrometer, scanning silver containing peaks in optimum collision energies, identifying any doublet or triplet peak pattern, and confirming with Y ions, and determining partial sequence by mass separation between two successive for determining peptide or protein sequences. Example 3; Page 13; 46pp; English 9 AA; Sequence

December 11, 2003 07:10 ABB08936 Length: 9 1 RPPGFSPFR

Type: P Check: 3472

AAE18740 standard; peptide; 9 AA (first entry) !! AA SEQUENCE 1.0 17-MAY-2002 AAE18740;

Human leucocyte antigen (HLA) class I epitope #4.

Human, lung tumour associated antigen, CASB761; vaccine; lung cancer; immunotherapeutic; lung preneoplastic lesion; autoimmune disease; gene therapy; cytostatic; immunosuppressive; human leucocyte antigen; HLA; epitope

Homo sapiens

WO200206338-A1.

24-JAN-2002

11-JUL-2001; 2001WO-EP07967

17-JUL-2000; 2000GB-0017512

SMIK) SMITHKLINE BEECHAM BIOLOGICALS

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Vinals Y De Bassols Gaulis S, WPI; 2002-179782/23 Cassart J,

Vaccine composition for treating cancer, in particular lung cancer, autoimmune diseases and other related conditions, comprises a lung tumor associated antigen, especially CASB761 polypeptide

Claim 9; Page 64; 92pp; English

The invention relates to vaccines comprising lung tumour associated antigen referred as CASB761 and its polynucleotide. CASB761 and its DNA are useful in the manufacture of a vaccine for immunotherapeutically treating a patient suffering from or susceptible to lung cancer, lung preneoplastic lesions or other related conditions. Vaccines of the invention are useful in medicine, for treating cancer, particularly lung cancer, autoimmune diseases and other related conditions. CASB761 polynucleotides and their proteins are useful as diagnostic reagents, to diagnose different forms and states of cancer, in staging cancerous discorder and grading the nature of the cancerous tissue. An antibody immunospecific for CASB761 is useful to isolate and to identify clones expressing CASB761 protein or to purify the polypeptide by affinity chromatography and to treat or prevent, particularly lung cancer, autoimmune disease and related conditions. CASB761 DNA is used in gene therapy. The present sequence is human leucocyte antigen (HLA) class I epitope. This sequence is used to incorporate an epitope of CASB761 protein.

Sequence 9 AA;

AAE18740 Length: 9 December 11, 2003 07:10 Type: P Check: 3295

HVPNGAANK

!!AA SEQUENCE 1.0 ID _AAU12061 standard; peptide; 9 AA.

AAU12061;

(first entry) 09-APR-2002 Alcohol dehydrogenase (ADH) conserved peptide seguence #2.

Plant; transgenic; marine eelgrass; zosteric acid biosynthesis; saline-resistance; anoxia-resistance; anti-fouling genetic trait; marine vascular plant; sulphated phenolic compound; Zostera marina; alcohol dehydrogenase; AbH; enzyme.

Synthetic.

W0200185971-A2

15-NOV-2001

10-MAY-2001; 2001WO-US15412

10-MAY-2000; 2000US-202529P

(PHYC-) PHYCOGEN INC

Alberte RS,

WPI; 2002-121947/16.

gene, a New transgenic plants comprising a zosteric acid biosynthetic ger saline resistance gene or a hypoxia resistance gene derived from

Zostera marina, useful for producing plants with antifouling traits Examples; Fig 11; 117pp; English

alcohol dehydrogenase (ADH), phenylalanine ammonia lysse (PAL) or a cinnamate 4-hydroxylase (CH), and transforming a target host plant with the isolated nucleic acid. The plant is useful in the genetic engineering of plant species having desirable genetic traits such as antifculing traits, salt and anoxia resistance, and pathogen defence strategy. The expression of such biosynthetic enzymes are sufficient to support the production of zosteric acid and other sulphated phenolic compounds in a target plant. AAU12058-AAU12063 represent conserved peptide sequences biosynthetic function, a saline-resistance function, or a anoxia-resistance function, or a anoxia-resistance function. The invention describes the method of producing a transgenic plant possessing an anti-fouling genetic trait by providing a CDNA population derived from a marine vascular plant, isolating from the CDNA population a nucleic acid species which hybridises to a nucleic acid that encodes a sulforransferase (ST), an The present invention relates to a new transgenic plant comprising a heterologous gene derived from the marine eelgrass Zostera marina or at least one heterologous nucleotide sequence encoding a zosteric acid of ADH, CH Or PAL

Sequence 9 AA;

December 11, 2003 07:10 Type: P Check: 3458 AAU12061 Length: 9

KGTFFGNYK

!!AA_SEQUENCE 1.0 ID ABP14476 standard; Peptide; 9 AA.

ABP14476;

(first entry) 15-JUL-2002

HIV A03 super motif gag peptide #38.

HIV; HIV-1; human immunodeficiency virus; env; pol; gag; nef; vpr; vpu; vif; tat; cytotoxic T lymphocyte; CTL; immune response; epitope; antigen; vaccine; HIV infection; immunisation; virucide.

Human immunodeficiency virus type 1.

WO200124810-A1

12-APR-2001.

05-OCT-2000; 2000WO-US27766

99US-0412863 05-OCT-1999;

(EPIM-) EPIMMUNE INC.

Chesnut R; Southwood S, Livingston BD, Kubo RT, Grey HM; Sidney J, Celis E, WPI; 2001-354887/37 Sette A, 8 Baker DM,

The present invention describes a composition (I) comprising a prepared human immunodeficiency virus-1 (HIV-1) group comprising an amino acid sequence selected from 51 defined amino acid sequences (ABL25347 to ABP25397). (I) has virucide activity and can be used in vaccines. (I) may be used for immunising subjects against HIV-1 infections. The use of proup-based vaccines has several advantages over traditional vaccines particularly when compared to the use of Mhole antigens in vaccine compositions. There is evidence that the immune response to whole antigens is directed largely toward variable regions of the antigen, Vaccine compositions comprising human immunodeficiency virus-1 (HIV-1) peptide groups, useful for vaccinating against ${\rm HIV-1}$ -Claim 32; Page 165; 448pp; English.

allowing for immune escape due to mutations. The groups for inclusion in an group-based vaccine may be selected from conserved regions of viral or tumour-associated antigens, which therefore reduces the likelihood of escape mutants. Furthermore, immunosuppressive groups that may be present in whole antigens can be avoided with the use of group-based vaccines. An additional advantage of an group-based vaccine approach is the ability to combine selected groups, (or and HT), and further, to modify the composition of the groups, achieving, for example, enhanced immunoganicity. Accordingly, the immune response can be modulated, as appropriate, for the target disease. Similar engineering of the response is not possible with traditional approaches. Asplisol to Asplis represent represent invention 5555555555555555

Sequence 9 AA;

ABP14476 Length: 9 December 11, 2003 07:10 Type: P Check: 3423

1 RASVLSGGK

!!AA_SEQUENCE 1.0 ID ABP20226 standard; Peptide; 9 AA

ABP20226;

15-JUL-2002 (first entry)

HIV A03 motif env peptide #430.

HIV; HIV-1; human immunodeficiency virus; env; pol; gag; nef; vpr; vpu; vif; tat; cytotoxic T lymphocyte; CTL; immune response; epitope; antigen; vaccine; HIV infection; immunisation; virucide.

Human immunodeficiency virus type 1.

WO200124810-A1.

12-APR-2001

05-OCT-2000; 2000WO-US27766.

99US-0412863. 05-OCT-1999;

(EPIM-) EPIMMUNE INC

Southwood S, Livingston BD, Kubo RT, Grey HM; Sidney J, Celis E, Sette A, Baker DM,

WPI; 2001-354887/37.

Chesnut R;

Vaccine compositions comprising human immunodeficiency virus-1 (HIV-1) peptide groups, useful for vaccinating against HIV-1 -

Claim 32; Page 284; 448pp; English.

escape mutants. Furthermore, immunosuppressive groups that may be present in whole antigens can be avoided with the use of group-based vaccines. An additional advantage of an group-based vaccine approach is the ability to combine selected groups (CTL and HTL), and further, to modify the composition of the groups, achieving, for example, enhanced immunogenicity. Accordingly, the immune response can be modulated, as regions of viral or ne likelihood of particularly when compared to the use of whole antigens in vaccine compositions. There is evidence that the immune response to whole antigens is directed largely toward variable regions of the antigen, allowing for immune escape due to mutations. The groups for inclusion in an group-based vaccine may be selected from conserved regions of viral or tumour-associated antigens, which therefore reduces the likelihood of οĘ The present invention describes a composition (I) comprising a prepared human immunodeficiency virus-1 (HIV-1) group comprising an amino acid sequence selected from 51 defined amino acid sequences (ABL25347 to ABP25397). (I) has virucide activity and can be used in vaccines. (I) may be used for immunising subjects against HIV-1 infections. The use of group-based vaccines has several advantages over traditional vaccines,

HIV; HIV-1; human immunodeficiency virus; env; pol; gag; nef; vpr; vpu; vif; tat; cytotoxic T lymphocyte; CTL; immune response; epitope; antigen; vaccine; HIV infection; immunisation; virucide.

HIV All motif gag peptide #248.

15-JUL-2002 (first entry)

Human immunodeficiency virus type 1.

!!AA SEQUENCE 1.0 ID —ABP22869 standard; Peptide; 9 AA.

1 RASVLSGGK

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appropriate, for the target disease. Similar engineering of the response is not possible with traditional approaches. ABP11501 to ABP25412 represent peptide sequences used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                            compositions comprising human immunodeficiency virus-1 (HIV-1) groups, useful for vaccinating against {\rm HIV}{}^{-1}
                                                                                                                                                                                                         HIV; HIV-1; human immunodeficiency virus; env; pol; gag; nef; vpr; vpu; vif; tat; cytotoxic T lymphocyte; CTL; immune response; epitope; antigen; vaccine; HIV infection; immunisation; virucide.
                                                                         ABP20226 Length: 9 December 11, 2003 07:10 Type: P Check: 3485
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                                                                                                                                                                                                                                                                                                                                                                           Chesnut
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Grey HM;
                                                                                                                                                                                                                                                   Human immunodeficiency virus type 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 32; Page 294; 448pp; English
                                                                                                                !!AA_SEQUENCE 1.0
ID ABP20722 standard; Peptide; 9 AA.
                                                                                                                                                                                      HIV A03 motif gag peptide #385.
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                                                                                                                                                                                                                                                                                                                                                                                    Kubo RT,
                                                                                                                                                                                                                                                                                                              05-OCT-2000; 2000WO-US27766
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                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                       (EPIM-) EPIMMONE INC
                                                                                                                                                                                                                                                                                                                                                                           Sidney J,
Celis E,
                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-354887/37.
                                                     9 AA;
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                                                                                            RSLCLFSYH
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Baker DM,
                                                                                                                                               ABP20722;
                                   invention
                                                                                                                                                                                                                                                                                                                                                                                                                             Vaccine or peptide of
                                                      Sequence
                                                                                              rH
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The present invention describes a composition (I) comprising a prepared human immunodeficiency virus-1 (HIV-1) group comprising an amino acid sequence selected from 51 defined amino acid sequences (ABL25347 to ABP25397). (I) has virucide activity and can be used in vaccines. (I) may be used for immunising subjects against HIV-1 infections. The use of group-based vaccines has several advantages over traditional vaccines of group-based vaccines has several advantages over traditional vaccine compositions. There is evidence that the immune response to whole antigens is directed largely toward variable regions of the antigen, allowing for immune escape due to mutations. The groups for inclusion in an group-based vaccine may be selected from conserved regions of viral or tumour-associated antigens, which therefore reduces the likelihood of escape mutants. Furthermore, immunosuppressive groups that may be present in whole antigens can be avoided with the use of group-based vaccines. An additional advantage of an group-based vaccine approach is the ability to composition of the groups, achieving, for example, enhanced composition of the groups, achieving, for example, enhanced is the ability is immunosation. immunogenicity. Accordingly, the immune response can be modulated, as appropriate, for the target disease. Similar engineering of the response is not possible with traditional particular ABP11501 to ABP25412 represent peptide sequences used in the exemplification of the present

9 AA;

ABP20722 Length: 9 December 11, 2003 07:10 Type: P Check: 3423

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the present invention describes a composition (I) comprising a prepared human immunodeficiency virus-1 (HIV-1) group comprising an amino acid sequence selected from 51 defined amino acid sequences (ABL25347 to ABP25397). (I) has virucide activity and can be used in vaccines. (I) may be used for immunising subjects against HIV-1 infections. The use of group-based vaccines has several advantages over traditional. The use of particularly when compared to the use of whole antigens in vaccines have compositions. There is evidence that the immune response to whole autigens is directed largely toward variable regions of the antigen, allowing for immune escape due to mutations. The groups for inclusion in an group-based vaccine may be selected from conserved regions of viral or tumour-associated antigens, which therefore reduces that may be present or suppressed antigens (with the use of group-based vaccines. In whole antigens can be avoided with the use of group-based vaccines. An additional advantage of an group-based vaccine approach is the ability to composition of the groups (CTL and HTL), and further, to modify the composition of the groups (CTL and HTL), and further, to modify the composition of the groups, achieving, for example, enhanced is more passible with traditional approaches. Application of the present represent peptide sequences used in the exemplification of the present in the present represent peptide sequences used in the exemplification of the present in the present peptide sequences used in the exemplification of the present in the present i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vaccine compositions comprising human immunodeficiency virus-1 (HIV-1) peptide groups, useful for vaccinating against \rm HIV-1 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   December 11, 2003 07:10 Type: P Check: 3423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chesnut R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Livingston BD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Southwood S, Livir
Kubo RT, Grey HM;
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ID _AAM49755 standard; peptide; 9 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (EPIM-) BPIMMUNE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sidney J,
Celis E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-354887/37
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                                                                                                                                                                                                                                                                                                                                                                                                                              05-OCT-1999;
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Baker DM,
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CXXXEX
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48

Elicitor; ion channel; resistance inducer; fungicide; plant protection; antibacterial; virucide; nematocide; insecticide; inducer; plant; intrinsic defence mechanism; secondary metabolism elicitor; peptalbol; tendril spiralisation inducer; pathogen; biosynthesis gene; ethylene; volatile odorant; kairomone; phytoallexin; antifungal; broad-spectrum pest resistance; bradykinin. 17-MAR-2000; 2000DE-1013294. 17-MAR-2000; 2000DE-1013294 Ammermann E, WPI; 2001-566353/64. Bradykinin peptide. Misc-difference 9 (BADI) BASF AG DE10013294-A1 Unidentified 20-SEP-2001 Jabs T,

This invention describes a novel use of ion channel forming compounds as resistance inducers and fungicides in plant protection. The products described in the invention have fungicide, antibacterial, virucide, nematocide and insecticide activity and act as ion channel formers, inducers of intrinsic defence mechanisms of plants, plant secondary inducers of intrinsic defence mechanisms of plants, plant secondary the invention are used for inducing resistance of plants to harmful forming the invention are used for inducing resistance of plants to harmful forming compounds, especially peptialpols to provide protection against fungiture of plants expressing biosynthesis genes for ion channel forming compounds, especially peptialpols to provide protection against fungit bacteria, viruses, nematodes and insects. Typically the products of the invention can induce the production of ethylene, volatile odorants (Kairomones) and phytoallexins by plants. The antifungal activity is chereia. Genceyora arachidicola, Erysiphe citobracearum, Spharotheca fuliginea, Erysiphe gramfulis, Fusarium, Verticillium, Helminthosporium, Wocophaerella, Phytophthora infestans, Plasmopara viticola, Podosphaera leuchotricha, Pseudocerosporalla, Seudoperonospora, Duccinia, Pyzicularia oryzae, Rhizoctonia, Septoria nodorum, Uncimila necator, Ustilago and Vonturia inaequalis. The products of the invention are range of plants. This sequence represents the bradykinin peptide used to illustrate the method of the invention. Inducing resistance of plants to fungi, bacteria, viruses, nematodes and insects, using ion channel forming compounds, preferably peptaibols such as alamethicin AAM49755 Length: 9 December 11, 2003 07:10 Type: P Check: 3472 !!AA_SEQUENCE 1.0 ID AAU24158 standard; Peptide; 9 AA. Example 3; Page 8; 14pp; German. 1 RPPGFSPFR Sequence

AAU24158;

(first entry)

17-DEC-2001 BXXXXX

Human MHC molecule HLA-All binding 103P2D6 peptide #43.

Sequences AWU23815-AAU24515 represent the 103P2D6-related protein and peptide fragments of the polypeptide. 103P2D6 is not expressed in normal adult tissue but is aberrantly expressed in some foetal tissues and many cancers including tumours of the prostate, testis, bladder, bone, cervix, ovary, breast, pancreas, colon and lung. The 103P2D6 polymucleotide, its related protein and also peptide fragments of the protein are therefore useful for diagnosing and treating cancer. A vector comprising a polymucleotide which encodes a single chain monoclonal antibody, that immunospecifically binds to an 103P2D6 related protein, and a ribozyme capable of cleaving a polymucleotide having the 103P2D6 coding sequence, are both useful in the preparation of a composition for treating a perparation of a composition for treating a patient with a cancer that expresses 103P2D6. The sequences can be used in diagnostic methods to monitor the level of 103P2D6 game products in serum, blood, urine and tissue and to thereby detect the presence of 103P2D6; PCR primer; DNA adaptor; prostate; testis; foetal tissue; tumour; cancer; bone; ovary; breast; pancreas; colon; lung; cytostatic; gene therapy; antibody therapy; ribozyme; serum; blood; urine; bladder; single chain monoclonal antibody; cervix; human. New polynucleotide for treating and diagnosing prostate cancer is the 103P2D6 gene which encodes for 103P2D6-related proteins -Hubert RS; Mitchell SC, Raitano AB, Afar DEH, Rastegar GS, Mit. Challita-eid PM, Faris M, Jakobovits A; Example 15; Page 90; 132pp; English. 24-FEB-2000; 2000US-0184558. 13-JUL-2000; 2000US-0218856. 26-FEB-2001; 2001WO-US05996. (UROG-) UROGENESYS INC WPI; 2001-557705/62. cancerous cells. WO200162925-A2. Homo sapiens 30-AUG-2001

Engelberth J;

Boland W,

Lorenz G,

Stierl R,

/note= "Arg-ol, argininol"

Location/Qualifiers

Check: 3510 Type: P AAU24158 Length: 9 December 11, 2003 07:10 Sequence 9 AA;

1 KGLLYQLFR !! AA SEQUENCE 1.0

AAU26809 standard; Peptide; 9 AA

AAU26809;

18-DEC-2001 (first entry)

Human Leukocyte Antigen (HLA) molecule immunogenic binding peptide #35

immunostimulant; cytostatic; antiviral; glycoprotein; cytotoxic T cell; viral disease; prostate cancer; hepatitis B; hepatitis C; lymphoma; AIDS; Immunogenic peptide; human leukocyte antigen; HLA-A2.1 binding motif; renal carcinoma; cervical carcinoma; condyloma acuminatum

Homo sapiens

WO200162776-A1.

30-AUG-2001

23-FEB-2000; 2000WO-US04655.

Southwood S;

Kast WM,

23-FEB-2000; 2000WO-US04655

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Immunogenic peptide, human leukocyte antigen; HLA-A2.1 binding motif; immunostimulant; cytostatic; antiviral; glycoprotein; cytotoxic T cell; viral disease; prostate cancer; hepatitis B; hepatitis C; lymphoma; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            human leukocyte antigen A2.1 (HIA-A2.1) binding motif. The peptides of the invention are capable of specifically binding glycoproteins encoded by HIA alleles and inducing a cytocoxic T cell response against an antigen in a patient expressing HIA-A2.1. This method is useful for the treatment, prevention and diagnosis of pathological states such as viral diseases and cancers, including prostate cancer, hepatitis B,
                                                                                                                                                                                                                                Sequences AAU26558-AAU27161 represent immunogenic peptides containing a human leukocyte antigen A2.1 (HLA-A2.1) binding motif. The peptides of the invention are capable of specifically binding glycoproteins encoded by HLA alleles and inducing a cytotoxic T cell response against an antigen in a patient expressing HLA-A2.1. This method is useful for the treatment, prevention and diagnosis of pathological states such as viral diseases and cancers, including prostate cancer, hepatitis B, hepatitis C, AIDS, renal carcinoma, cervical carcinoma, lymphoma, and condyloma acuminatum. The peptides are used for treatment of chronic infection and for stimulating the immune system to eliminate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human Leukocyte Antigen (HLA) HLA-A2.1 immunogenic binding peptide #403.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequences AAU26558-AAU27161 represent immunogenic peptides containing a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Composition for treating viral diseases and cancer comprises an immunogenic peptide having an HLA-A2.1 binding motif -
                                                                                                                                              Composition for treating viral diseases and cancer comprises an immunogenic peptide having an HLA-A2.1 binding motif -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           carcinoma; cervical carcinoma; condyloma acuminatum
                                                                                                                                                                                                     Example 2; Page 62; 85pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE 1.0
AAU27119 standard; Peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 3; Page 78; 85pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-FEB-2000; 2000WO-US04655
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                             virus-infected cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sidney J,
                                   (EPIM-) EPIMMUNE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-582039/65
                                                                      Sette A, Sidney J,
                                                                                                         WPI; 2001-582039/65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAU26809 Length: 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sette A,
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December 11, 2003 07:10 Type: P Check: 3460

The invention provides a method of diagnosis of tauopathies in an individual that comprises determining the ratio of phospho-tau (181)/
Cotal tau. Tau and phospho tau are useful as neurological markers for the manufacture of a diagnostic kit for the diagnosis of a tauopathy and/or the differential diagnosis of a tauopathy versus a non tauopathy. A phospho-peptide liable to form an immunological complex with monoclonal attibody HT7 and Mab Ar270 comprising at least the minimal epitope of HT7 or Ar270 is useful to measure phospho-tau levels and diagnose a tauopathy and/or for the differential diagnosis of a tauopathy versus a non tauopathy. The kit is useful for the diagnosis of Alzheimer's disease, pick a disease, sporadic Frontotemporal dementia and/or Frontotemporal dementia with Parkinsonism linked to chromosome 17, Creuzzfeldt Jacob disease, stroke and/or neurotoxicity in patients with leukemia. The phosphopeptide kits and methods are useful for therapeutic monitoring and Tauopathy, phospho-tau (181); neurological marker; antibody; BT2; AT120; HT7; AT270; nootropic; neuroprotective; cerobroprotective; epitope. for determining the effectiveness of a treatment. Sequences AABB5641-64 represent synthetic peptides immunoreactive to tau antibodies HT7, tau1, BT2, AT120 and AT270. hepatitis C, AIDS, renal carcinoma, cervical carcinoma, lymphoma, and condyloma acuminatum. The peptides are used for treatment of chronic infection and for stimulating the immune system to eliminate virus-infected cells. Determining the ratio of phospho-tau / total tau is useful for diagnosing a tauopathy i.e. Alzheimer's disease or Pick's disease, versus a non tauopathy -: Type: P Check: 3460 Synthetic peptide immunoreactive with tau antibody HT7. AAU27119 Length: 9 December 11, 2003 07:10 Vanmechelen E, Vanderstichele H; AAB85641 standard; peptide; 9 AA. Example 1; Fig 1; 71pp; English. 24-JAN-2000; 2000EP-0870008. 27-JAN-2000; 2000US-0178391. 22-NOV-2000; 2000EP-0870280. 18-JAN-2001; 2001WO-EP00560. (first entry) (INNO-) INNOGENETICS NV WPI; 2001-476242/51. 9 AA; WO200155725-A2. RLQLSNGNK Homo sapiens. !!AA_SEQUENCE 1.0 29-OCT-2001 02-AUG-2001, Synthetic AAB85641; Sequence និងក្នុងន

Type: P Check: 3379

December 11, 2003 07:10

AAB85641 Length: 9 Sequence 9 AA;

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Southwood

Kast WM,

1 RGAAPPGQK

!!AA_SEQUENCE 1.0

AAG66801 standard; Peptide; 9 AA

seq28-agen.res

bradykinin.

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This invention relates to a process for purifying a polypeptide. The process comprises loading a mixture containing the polypeptide onto a reversed-phase liquid chromatography column and eluting the polypeptide from the column with a buffer containing hexylene glycol. The process is used for purifying a peptide from hydrophobic peptides, where the peptide factor-I IGF-I), thrombopoietin, a hormone, a chicken egg protein, a peptide of between 5 and 25 amino acids, an antibody and/or a hormone binding protein. The present sequence represents a bradykinin peptide which is used in an example illustrating the use of hexylene glycol as a
                                                                                                                                                                                                                                                                                                                                                                                          Purifying polypeptides, e.g. insulin-like growth factor, by reversed-phase liquid chromatography using hexylene glycol as eluate
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 2; Column 21-22; 27pp; English.
                                                                                                                                                                            98US-0168548
                                                                                                                                                                                                                     97US-0063119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          reversed-phase eluent.
                                                                                                                                                                                                                                                             (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-463942/50.
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                                           Unidentified
                                                                                                                                                                            08-OCT-1998;
                                                                                                                                                                                                                  24-OCT-1997;
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                                                                                      US6265542-B1
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19-AUG-1997;
                                                                                                                                                                                                                                                                                                         Fahrner RL,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
The sequence represents the vasodilator bradykinin, a potassium channel activators other than bradykinin and bradykinin analogues can be administered to a subject in order to deliver a medicament to an abnormal brain region and/or to a malignant tumour. The security blood to cells of the abnormal brain region or tumour. The activator and the medicament are administered simultaneously to achieve selective delivery to neoplastic tissue, therefore minimising damage to the non-malignant tissue. This method is useful in the treatment of physical or biochemical brain injuries caused by trauma, infection, stroke, ischaemia, especially malignant brain tumours and also tumours of the skin. Ithe method is useful to move the skin. The method is used to treat mammals such as humans, inchaman or skin. The method is used to treat mammals such as humans, non-human and also tumour and also tumour skin. The method is used to treat mammals such as humans, non-human and also the activation and also the skin.
                                                                                                                                                          Bradykinin, vasodilator; potassium channel activator; malignant tumour; permeability; capillary; arteriole, selective delivery; brain injury; neoplastic tissue; trauma; stroke; ischaemia; brain; skull; spine; lung; thorax; peritoneum, prostate; ovary; uterus; breast; stomach; liver; rat; bowel; colon; rectum; bone; lymphatic system; skin; mammal; human; dog; primate; cat; cow; pig; mouse; gerbil; hamster; cytostatic; rabbit; cerebroprotective; sheep.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Protein purification; hexylene glycol, reversed-phase chromatography, insulin-like growth factor-1; IGF-1; thrombopoietin; hormone;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Delivering a medicament e.g. minoxidil sulfate to an abnormal brain region and/or to a malignant tumour comprises administration of a potassium channel agonist other than bradykinin -
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                                                                                                                        Bradykinin vasodilator potassium channel activator.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 19; 62pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (CEDA-) CEDARS SINAI MEDICAL CENT.
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ID AAG64745 standard; peptide; 9 AA.
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14-JUL-2000; 2000US-0615854
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-JAN-2001; 2001WO-US02743
                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Black KL, Ningaraj NS;
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                                                                                                                                                                                                                                                                                                                                           Unidentified
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                                                                             12-OCT-2001
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                                    AAG66801;
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Novel composition comprises a peptide comprising part of the sequence of the nuclear Dbf2-related protein kinase, Ndr, useful in treating disorders involving Ndr regulation by CBPs, e.g. melanoma.
                                                                                                                                                                                                                                                                                                                                                                                                                       Nuclear Dbf2-related protein kinase; Ndr; cytostatic; gene therapy; calcium binding protein; CBP; tumour; melanoma.
December 11, 2003 07:10 Type: P Check: 3472
                                                                                                                                                                                                                                                                                                                                                         Nuclear Dbf2-related (Ndr) substrate #24.
                                                                                                                            !!AA_SEQUENCE 1.0
ID AAE04938 standard; peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98US-0133062.
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                                                                                                                                                                                                                                                                                              (first entry)
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KKXEXEX

Example 2; Column 35; 22pp; English.

protein kinase. The present invention relates to a method of modulating the activity of a protein comprising the activating domain of an Ndr family kinase, by influencing the binding of an BF hand-containing calcium binding protein (GBP). The invention also provides a novel composition comprising nuclear Dbf2-related protein kinase peptides. The composition is useful in treating disorders involving Ndr regulation by CBPs, e.g. tumours especially melanoma. The Ndr protein kinases are also used in gene therapy. The present peptide sequence is a substrate for Nuclear Dbf2-related

9 AA; Sequence December 11, 2003 07:10 Type: P Check: 3472 AAE04938 Length: 9

1 RPPGFSPFR

!!AA SEQUENCE 1.0 ID AAE05217 standard; peptide; 9 AA.

AAE05217;

(first entry) 12-SEP-2001 Human HLA-A3 binding peptide #23 from c-ski oncoprotein.

Human; cytostatic; vaccine; gene therapy; immunogen; c-ski oncoprotein; cytocoxic lymphocyte; CTL; tumour cell; human leukocyte antigen; HiA-A1; HIA-A2; HIA-A3; cancer; melanoma; colorectal carcinoma; lung carcinoma; ovarian carcinoma; prostate carcinoma; major histocompatibility complex; MHC; cytokine; passive immunotherapy.

Homo sapiens.

WO200149310-A1.

12-JUL-2001

03-JAN-2001; 2001WO-US00154

03-JAN-2000; 2000US-0174296.

(ARGN-) ARGNOEX PHARM INC.

Ross MM; Hogan KT, WPI; 2001-441786/47.

New immunogenic peptides derived from c-ski oncoprotein, useful for inducing cytotoxic T lymphocyte response in vivo and in vitro and for diagnosing, preventing, treating melanoma, colorectal and lung carcinomas

Claim 3; Page 50; 77pp; English.

The present invention relates to peptide immunogens derived from c-ski oncoprotein. The peptides are useful for inducing a cytotoxic lymphocyte (CTL) response in vitro that is specific for a tumour cell expressing at least one of human leukocyte antigens (HLA) All, HLA-A2 or HLA-A3. The CTLs produced in vitro are useful for treating cancer such as melanoma, colorectal carcinoma, ovarian carcinoma, lung carcinoma or prostate carcinoma characterised by tumour cells expressing HLA-A1, -A2 or -A3 or any class I major histocompatibility complex (MHC) molecule and the carcinoma characterised by the cells complex (MHC) molecule and the cask in order to the complex of the cells continued to the contraction of tumour cells continued to the contraction of the cells continued to the contraction of the cells cells contraction of the cells cells contraction of the cells cells contracted the cells cel cytometry to quantitate the frequency of peptide-specific CTL that are present in a sample of lymphocytes from individuals. The immunogenic peptides can also be used to stimulate the production of antibodies for indirectly through the elaboration of cytokines. The peptides can also be used to screen a sample for the presence of CTL that specifically recognise the corresponding epitopes. Peptides are used to prepare class I MHC tetramers which can be used in conjunction with flow

as reagents such as in affinity chromatography. The immunogenic peptides are used as vaccine. c-ski gene is used in gene therapy. The present sequence is human HLA-A3 binding peptide from c-ski oncoprotein. use in passive immunotherapy, as diagnostic reagents, 8888888

AAE05217 Length: 9 December 11, 2003 07:10 Type: P Check: 3279

1 KLSAALQAK

| | PA SEQUENCE 1.0 | TO AAB97901 standard; Peptide; 9 AA.

AAB97901;

09-AUG-2001 (first entry)

Human VEGF/VPF peptide SEQ ID NO:1.

Vascular endothelial growth factor/vascular permeability factor; VEGF/VPF; human; anticancer; taxane; cancer; angiogenesis; tumour; inhibition; monoclonal antibody.

Homo sapiens.

JP2001072589-A.

21-MAR-2001

99JP-0341598 01-DEC-1999; (TOAG) TOA GOSEI CHEM IND LID

99JP-0192106.

06-JUL-1999;

WPI; 2001-321253/34.

endothelial growth factor/vascular permeability factor (VEGF/VPF) and a taxane useful as anti-cancer agents Vascular

Claim 3; Page 7; 8pp; Japanese.

The present invention describes a combination of vascular endothelial growth factor/vascular permeability factor (VEGE/VPF) and a taxane compound. An anticancer agent composed of effective ingredients of VEGF/VPF antagonist, particularly anti-VEGF/VPF monoclonal antibody, vEGF/VPF antagonist, particularly anti-VEGF/VPF monoclonal antibody, VEGF/VPF antagonist, particularly anti-VEGF/VPF monoclonal antibody, VEGF/VPF: (I) KPSCVPLMR (Iys-Pro-Ser-Cys-Val-Pro-Leu-Met-Arg); (II) SFLOHNKCECRP (Ser-Phe-Leu-Gln-His-Asn-Lys-Cys-Glu-Cys-Arg-Pro-Argania, II) KCECKPKENRER (Iys-Cys-Glu-Cys-Arg-Pro-Iys-Lys-Cys-Glu-Cys-Arg-Arg-Ala-Arg) and a taxane compound. The anticancer agent has cytostatic activity and can be used in the inhibition of angiogenesis in tumours and growth inhibition of cancer. The agents can be used in the treatment of cancer AAB97834 to AAB97901 represent human VEGF/VPF peptide which are used in the exemplification of the present invention.

Sequence 9 AA;

Type: P Check: 3548 AAB97901 Length: 9 December 11, 2003 07:10

1 KPSCVPLMR

BXXXXXXXXX

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1.0 standard; Peptide; 9

I AA SEQUENCE ID AAB96035

AAB96035;

(first entry) 25-JUN-2001 HPV 18 E7 A3 MHC-binding epitope SEQ ID 122.

Epitope; tumour antigen; antiviral; immunostimulatory; cervical cancer;

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This invention relates to polynuclectides encoding a hybrid polypeptide. Comprising a signal sequence and three segments that are either contiguous or separated by a spacer amino acid or spacer peptide. The invention specifically details polynuclectides encoding a polyepticope pering protein of a pathogenic agent. The polyanticope peptides are useful for eliciting an immune response in a maninal The polynuclectide and protein are useful for eliciting an immune response in a reating tumours and pathogenic infections. The polynuclectide and polyacitocide and protein are useful for eliciting an immune response in a reating tumours and pathogenic infections. The polynuclectide is also useful for preventing or treating human papillomavirus (HPV) -associated diseases, particularly exophytic condyloma, falt condyloma, cervical cancer, respiratory papilloma, conjunctival papilloma end polypeptide are useful for generating or theating prophylactic or therapeutic immune response against pathogens, understand proteins, high grade squamous intraepithelial lesiul for generating or enhancing prophylactic or therapeutic immune response against pathogens, tumours or autoimmune diseases in a medial processing of epitopes within cells. Peptides

MABDSSS4 - AABBGG037 and AABBG044 - AABBG048 crepresent major histocompatibility complex I (MFC I) associated tumour and pathogen antigens. The peptides can be used as part of the polyepitope proteins represented by AABBG030 - AABBG032, and included are examples of the polyepitope proteins represented by AABBG030 - AABBG032, and included are examples of the polyepitope proteins represented by AABBG030 - AABBG032, and included are examples of the polyepitope proteins represented by AABBG030 - AABBG032, and included are examples of the polyepitope proteins represented by AABBG030 - AABBG032, and included are examples of the polyepitope proteins of the 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel nucleic acids encoding polyepitope polypeptides containing multiple epitopes from one or more proteins, useful for treating tumors and as vaccines against pathogenic agents
human papillomavirus-associated disease; condyloma; cervical dysplasia; cervical dysplasia; major histocompatibility complex; MHC I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB96035 Length: 9 December 11, 2003 07:10 Type: P Check: 3252
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                                                                                                                                                                                                                                                                               99US-0398534.
99US-0169846.
99US-0458173.
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                                                                                                                                                                                                                                                                                                                                                                                                                      Urban RC,
                                                                    Human papillomavirus.
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                                                                                                                                                                                                                                                                                                                                                                          (ZYCO-) ZYCOS INC.
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09-DEC-1999;
09-DEC-1999;
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                                                                                                                                                                 22-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                      Hedley ML,
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The present invention describes a composition comprising a prepared hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121. These are derived from HCV HLA-binding motifs. They are useful in vaccines for the prevention and treatment of HCV infection in human present sequence is an epitope used in the disclosure of the invention.
                                                                                                                                                                                                                                                                                                                     The present invention describes a composition comprising a prepared hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121. These are derived from HCV HLA-binding motifs. They are useful in vaccines for the prevention and treatment of HCV infection in humans. The present sequence is an epitope used in the disclosure of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;
                                                                                                                                                                                                                                                                A new composition useful as a vaccines against hepatitis C virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A new composition useful as a vaccines against hepatitis C virus
                                                                                                                                                                                                                                                                                                                                                                                                                                          AAJ02237 Length: 9 December 11, 2003 07:10 Type: P Check: 3356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chesnut R;
                                                                                                                                                                                         Chesnut
                                                                                                                                                                                         Sidney J, Southwood S, Livingston BD, Celis E, Kubo RT, Grey HM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sidney J, Southwood S, Livingston BD, Celis E, Kubo RT, Grey HM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 156; 214pp; English.
                                                                                                                                                                                                                                                                                            Disclosure; Page 156; 214pp; English.
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ID AAJ02240 standard; Peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hepatitis C virus epitope #2231.
                                                                                                   19-JUL-2000; 2000WO-US19774.
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                                                                                                                                 99US-0357737.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (EPIM-) EPIMMUNE INC.
                                                                                                                                                             (EPIM-) EPIMMUNE INC
                                                                                                                                                                                                                                   WPI; 2001-308046/32
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hepatitis C virus.
            Hepatitis C virus.
                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 9 AA;
                                          WO200121189-A1.
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                                                                                                                                 19-JUL-1999;
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                                                                       29-MAR-2001
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Baker DM,
                                                                                                                                                                                          Sette A,
Baker DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antiviral
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virus

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Chesnut

Check: 3628

Type: P

seq28-agen.res

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The present invention describes a composition comprising a prepared hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121. These are derived from HCV HLA-bindding motifis. They are useful in vaccines for the prevention and treatment of HCV infection in humans. The present sequence is an epitope used in the disclosure of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Medical agent useful in combination with radiation therapy for treating cancer and tumor comprises vascular endothelial cell growth factor/vasopermeability factor antagonist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention describes a medical agent which is useful in combination with radiation therapy, and consists of a vascular endothelial cell growth factor (VEGF)/vasopermeability factor (VFF) antagonist. This is useful in the treatment of cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VEGF VPF antagonist; heavy particle ray medical treatment; cancer;
                                                                                                                         composition useful as a vaccines against hepatitis C
                                     Southwood S, Livingston BD, Kubo RT, Grey HM;
                                                                                                                                                                                                                                                                                                                            December 11, 2003 07:10
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                                                                                                                                                        Disclosure, Page 167; 214pp; English
                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE 1.0
AAB74574 standard; Peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VEGF VPF antagonist peptide #68
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ID AAB89339 standard; Peptide; 9
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     (EPIM-) EPIMMUNE INC
                                     Sidney J,
Celis E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-238154/25.
                                                                                        WPI; 2001-308046/32
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                                                                                                                                                                                                                                                                                            Sequence 9 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9 AA;
                                                                                                                                                                                                                                                                                                                                                            HGPTPLLYR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21-JUN-1999;
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                                      Sette A,
Baker DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB74574;
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                                                                                                                         A new
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                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention describes a composition comprising a prepared hepatitis C virus (HCV) epitope such as those given in AAJ00010-AAJ04121. These are derived from HCV HIA-binding motifs. They are useful in vaccines for the prevention and treatment of HCV infection in humans. The present sequence is an epitope used in the disclosure of the invention.
                                                                                                                                                                                                                                                  Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hepatitis C virus; HCV; epitope; vaccine; immunogen; HLA-binding motif;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            new composition useful as a vaccines against hepatitis C virus
                                 December 11, 2003 07:10 Type: P Check: 3628
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chesnut R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Livingston BD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Southwood S, Livi
Kubo RT, Grey HM;
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ID AAJ02721 standard; Peptide; 9 AA
                                                                                                                                                                                                                    Hepatitis C virus epitope #2709.
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                                                                                               !!AA_SEQUENCE 1.0
ID AAJ02718 standard; Peptide; 9
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Celis E,
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                                                                                                                                                                                                                                                                                                       Hepatitis C virus.
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                               AAJ02240 Length: 9
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9 A.A.;
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Baker DM,
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Seguence
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Type: P Check: 3548

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Disclosure; Page 1; 49pp; English.
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                                                                                                                                                                                            9 AA;
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                                                                                                                                                                                                                                                   1 RPPGFSPFR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unidentified
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                                                                                                                                                                                                                                                                                11AA SEQUENCE
ID AAB35578
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     8 X C C C C C C C C C X S S
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                                                                                                                                                                                                                                                                                                                          Human chemokine receptor; CD4; HIV; glycoprotein 120; gp120; antagonist; replication; CCR5; CXCR4; CTR133.
                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes a number of peptides which are able to bind to HIV glycoprotein 120 (gp120). These are similar to the human chemokine receptors CCR5, CXCR4 and STR133, as well as CD4. These are useful in the treatment of HIV, as they prevent replication of the virus. The present sequence is an example of a peptide of the invention.
                                                                                                                                                                                                                                                                                                         have homology to CXCR4 and STRL33,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Inhibiting thrombin activation in human cell expressing protease activated receptor 1 (PAR1), comprises contacting mixtures of thrombin and human cell expressing PAR1, with a peptide that inhibits platelet activation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Platelet aggregation inhibitor; thrombin activation inhibitor; protease activated receptor 1; PARI; platelet activation inhibitor; thrombosis; acute coronary syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Check: 3404
                                                                                                                                                                                                                                                                                                  Novel polypeptides useful for treating HIV infection, regions of domains of human chemokine receptors CCR5, and binds to HIV gpl20 under physiological conditions
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HIV gp120 protein binding peptide #432
                                                                                                                                                                                                                                                                                                                                                               Example 5; Page 50; 114pp; English
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ID AAB73103 standard; Peptide; 9 AA.
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                                                                                                                                                                                                                                                                           WPI; 2001-244398/25.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9 AA;
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                                                                                                                                                                                        27-AUG-1999;
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                                                                                                                               08-MAR-2001
                                                                                                                                                                                                                                                Saxinger C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bradykinin.
                                                                      Synthetic.
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The present invention describes electrophoretic methods and devices for separating biological molecules such as proteins, methods for determining their sequence and methods for generating protein expression fingerprint datasets. These can then be used in diagnosis, drug discovery and development, environmental monitoring by bioassay, toxin quantitation, biosensor development, gene therapy, pharmacological monitoring, illicit drug testing, transgenics and metabolic engineering.
The present invention relates to a method for inhibiting thrombin activation in a human cell expressing protease activated receptor 1 (PAR1). The method involves using peptides (see AAB72564-AAB72600, AAB73101, AAB73101), that inhibit platelet activation. The method is useful for preventing thrombosis and platelet aggregation. The method can be used for patients with acute coronary syndromes (e.g. cresendo angina, mycoardial infarction) and for individuals who have acute coronary syndromes and receive percutaneous transluminal coronary angioplasty with an artificial stent placement. The present sequence is a peptide used in the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Protein separation; proteomics; metabolite profiling; medicine; gene therapy; drug testing; diagnosis.
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ID AAB35579 standard; peptide; 9 AA.
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25-FEB-2000; 2000US-0513395.
25-FEB-2000; 2000US-0513486.
25-FEB-2000; 2000US-0513907.
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(UROG-) UROGENESYS INC.
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                                                                                                                                                                                                                                                                                                                                                                   Sequence 9 AA;
                          Hubert RS, A
Mitchell SC,
                                                                                                                bone cancer
  The present invention describes electrophoretic methods and devices for separating biological molecules such as proteins, methods for determining their sequence and methods for generating protein expression fingerprint datasets. These can then be used in diagnosis, drug discovery and development, environmental monitoring by bioassay, toxin quantitation, biosensor development, gene therapy, pharmacological monitoring, illicit drug testing, transgenics and metabolic engineering.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     83P5G4-related protein; prostate; testis; tissue; cancer; bladder; liver; tumour; Kidney; brain; bone; ovary; breast; panoteas; colon; lung; serum; cytostatic; gene therapy; antibody therapy; ribozyme; blood; cervix; single chain monoclonal antibody; urine; titerus; rectum; stomach; human;
                                                                                                                                                                                                                                                                                                                                                   Novel methods for separating and identifying a polypeptide species from a sample solution by electrophoresis and mass spectrographic fragmentation, useful for preparing protein fingerprints -
                                                                        Protein separation; proteomics; metabolite profiling; medicine; gene therapy; drug testing; diagnosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAB35579 Length: 9 December 11, 2003 07:10 Type: P Check: 3472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human MHC class I molecule HLA-A3 binding 83P5G4 peptide #16.
                                                                                                                                                                                                                                                                                                   Peterson JN;
                                                 Protein separation method related peptide #4.
                                                                                                                                                                                                                                                                                                    Petesch R,
                                                                                                                                                                                                                                                                                                                                                                                                     Example 8; Fig 18; 265pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAM24739 standard; Peptide; 9 AA.
                                                                                                                                                                                                             20-APR-1999; 99US-0130238.
25-FEB-2000; 2000US-051395.
25-FEB-2000; 2000US-0513486.
25-FEB-2000; 2000US-0513907.
                                                                                                                                                                                                                                                                           TARG-) TARGET DISCOVERY INC
                                                                                                                                                                                      19-APR-2000; 2000WO-US10504
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                        (first entry)
                                                                                                                                                                                                                                                                                                    Hall MP,
                                                                                                                                                                                                                                                                                                                           WPI; 2001-007027/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         chromosome 1q31-q32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9 AA;
                                                                                                                                     WO200063683-A1.
                                                                                                                                                                                                                                                                                                    Schneider LV,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ! AA_SEQUENCE 1.0
                                                                                                              Unidentified
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                        14-FEB-2001
                                                                                                                                                              26-OCT-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
 AAB35579;
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peptide fragments of the protein. 83PS4 exhibits prostate specific expression in normal adult tissue, but it is also aberrantly expressed in many cancers including tumours the prostate, testis, bladder, kidney, brain, bone, cervix, uterus, ovary, breast, pancras, stomach, rectum, liver, colon and lung. The 83PS4 polymucleotide, its related protein and alagnosing and treating cancer. A vector comprising a polymucleotide which encodes a single chain monoclonal antibody, that immunospecifically binds to an 83PS4-related protein, and a ribozyme capable of cleaving a polymucleotide having the 83PS4 coding sequence, are both useful in the preparation of a composition for treating a patient with a cancer that expresses 83PS4. The sequences can be used in diagnostic methods to monitor the level of 83PS64 goding is erum, blood, urine and tissue and to thereby detect the presence of cancerous cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             83P5G4-related protein, prostate, testis, tissue, cancer, bladder, liver, tumour, Kidney, brain, bone, ovary, breast, pancreas, colon, lung; serum, cytostatic, gene therapy, antibody therapy, ribozyme; blood; cervix, single chain monoclonal antibody, urine, uterus, rectum; stomach; human;
                                                                                                                                                                                                                                               An isolated 83P5G4-related protein useful as a diagnostic and/or therapeutic agent in multiple cancers such as prostate, bladder and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   An isolated 83P5G4-related protein useful as a diagnostic and/or therapeutic agent in multiple cancers such as prostate, bladder and bone cancer - \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The polypeptide sequences represent the 83P5G4-related protein and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               December 11, 2003 07:10 Type: P Check: 3626
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     Levin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human MHC molecule HLA-All binding 83P5G4 peptide #7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Challita-eid PM, Faris M,
     Challita-eid PM, Faris M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 15; Page 79; 112pp; English.
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XX
AC
AM24830;
XX
AM24830;
XX
A4-DEC-2001 (first entry)
XX
A1-DEC-2001 (first entry)
XX
ANDEC-2001 (first entry)
AND
Afar DEH, Chal
, Jakobovits A;
                                                                                                                                                          WPI; 2001-514669/56
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peptide fragments of the protein. 839564 exhibits prostate specific expression in normal adult tissue, but it is also aberrantly expressed in many cancers including tumours of the prostate, testis, bladder, kidney, brain, bone, cervix, uterus, overy, breast, pancreas, stomach, rectum, liver, colon and lung. The 839564 polymucleotide, its related protein and diagnosing and treating cancer. A vector comprising a polymucleotide which encodes a single chain monoclonal antibody, that immunospecifically binds to an 839564-related protein, and a ribozyme capable of cleaving a polymucleotide having the 839564 coding sequence, are both useful in the preparation of a composition for treating a patient with a cancer that expresses 839564. The sequences can be used in diagnostic methods to monitor the level of 839564 ended in serum, blood, urine and tissue and to thereby detect the presence of cancerous cells. polypeptide sequences represent the 83P5G4-related protein and

9 AA; Seguence December 11, 2003 07:10 Type: P Check: 3626 AAM24830 Length: 9

HONSTFYVK

AAM24845 standard; Peptide; 9 AA ! AA_SEQUENCE 1.0

AAM24845;

(first entry) 04-DEC-2001

Human MHC molecule HLA-All binding 83P5G4 peptide #22.

83P5G4-related protein; prostate; testis; tissue; cancer; bladder; liver; tumour; kidney; brain; bone; ovary; breast; pancreas; colon; lung; serum; cytostatic; gene therapy; antibody therapy; ribozyme; blood; cervix; single chain monoclonal antibody; urine; uterus; rectum; stomach; human; chromosome 1q31-q32.

Homo sapiens.

WO200159115-A2.

16-AUG-2001

09-FEB-2001; 2001WO-US04426.

09-FEB-2000; 2000US-0181261.

UROG-) UROGENESYS INC

Levin E; Challita-eid PM, Faris M, Jakobovits A; Afar DEH, Hubert RS, ;

WPI; 2001-514669/56

An isolated 83P5G4-related protein useful as a diagnostic and/or therapeutic agent in multiple cancers such as prostate, bladder and bone cancer

Example 15; Page 82; 112pp; English.

Peptide fragments of the protein. 335564 exhibits prostate specific expression in normal adult tissue, but it is also aberrantly expressed in many cancers including tuneurs of the prostate, testis, bandder, kidney, brain, bone, cervix, uterus, ovary, breast, pancras, stomach, rectum, liver, colon and lung. The 83P564 polynucleotide, its related protein and appetide fragments and specific PCR primers are therefore useful for which encodes a single chain monoclonal antibody, that immunospecifically binds to an 83P564 related protein, and a ribozyme capable of cleaving a polynucleotide having the 83P564 coding sequence, are both useful in the preparation of a composition for treating a patient with a cancer that expresses 83P564. The sequences can be used in diagnostic methods to The polypeptide sequences represent the 83P5G4-related protein and

monitor the level of 83P5G4 gene products in serum, blood, urine and tissue and to thereby detect the presence of cancerous cells. Check: 3562 Human MHC molecule HLA-All binding 83P5G4 peptide #30. December 11, 2003 07:10 Type: P !!AA_SEQUENCE 1.0 ID AAM24853 standard; Peptide; 9 AA. 04-DEC-2001 (first entry) AAM24845 Length: 9 Sequence 9 AA; 1 ROPOLGVLR

83P5G4-related protein; prostate; testis; tissue; cancer; bladder; liver; tumour; fathey; brain; bone; ovary; breast; pancreas; colon; lung; serum; cytostatic; gane therapy; antibody therapy; ribozyme; blood; cervix; single chain monoclonal antibody; urine; uterus; rectum; stomach; human; chromosome 1q31-q32.

Homo sapiens,

WO200159115-A2.

16-AUG-2001

09-FEB-2001; 2001WO-US04426.

09-FEB-2000; 2000US-0181261.

(UROG-) UROGENESYS INC

щ Levin Challita-eid PM, Faris M, Hubert RS, Afar DEH, Ch Mitchell SC, Jakobovits

WPI; 2001-514669/56.

An isolated 83P5G4-related protein useful as a diagnostic and/or therapeutic agent in multiple cancers such as prostate, bladder and bone cancer

Example 15; Page 82; 112pp; English.

The polypeptide sequences represent the 83P5G4-related protein and peptide fragments of the protein. 83P5G4 exhibits prostate specific expression in normal adult tissue, but it is also aberrantly expressed in many cancers including tumours of the prostate, testis, bladder, kidney, brain, bone, cervix, uterus, ovary, breast, pancreas, stomach, rectum, liver, colon and lung. The 83P5G4 polymucleotide, its related protein and peptide fragments and specific PCR primers are therefore useful for diagnosing and treating cancer. A vector comprising a polymucleotide which encodes a single chain monoclonal antibody, that immunospecifically binds to an 83P5G4-related protein, and a ribozyme capable of cleaving a polymucleotide having the 83P5G4 coding sequence, are both useful in the preparation of a composition for treating a patient with a cancer that expresses 83P5G4. The sequences can be used in diagnostic methods to monitor the level of 83P5G4 gene products in serum, blood, urine and tissue and to thereby detect the presence of cancerous cells.

9 AA; Sequence December 11, 2003 07:10 Type: P Check: 3385 AAM24853 Length: 9

1 KAVFCTGGR

!!AA_SEQUENCE 1.0 ID ABJ38048 standard; Peptide; 9 AA. RXA

ABJ38048;

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Human cytomegalovirus CTL epitope peptide SEQ ID No 136,
                                                           1 KLGGALOAK
                          Khanna R,
                                                     Sequence
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Virucide, immunostimulant, cytotoxic T-lymphocyte, CTL, epitope, antigen,
human cytomegalovirus, HCMV; pp28; pp50; pp65; pp71; pp150; gB; gH; IE-1;
IE-2; US2; US3; US6; US11; UL18; cytomegalovirus infection; pregnancy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New human cytomegalovirus (CMV) cytotoxic T-cell epitope peptide, useful for diagnosing, preventing or treating CMV infection, comprises pp28, pp50, pp65, pp71, pp150, gB, gH, IE-1, IE-2, US2, US3, US6, US11 or UL18
                                                             Human cytomegalovirus CTL epitope peptide SEQ ID No 106.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (COUN-) COUNCIL QUEENSLAND INST MEDICAL RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Walker SJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Page 106; 308pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26-JUN-2001; 2001AU-0005931.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-JUN-2002; 2002WO-AU00829
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Elkington RA,
                                                                                                                                                                                                                                                                                            Human cytomegalovirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-300379/29
                                                                                                                                                                                                                           transplantation.
                                                                                                                                                                                                                                                                                                                                                          WO2003000720-AL
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The invention relates to a novel isolated peptide comprising one or more cytotoxic T-lymphocyte (CTL) epitope(s) of the same or different antigen of a human cytomegalovirus (HCMV). The HCMV antigens can comprise pp28, pp50, pp65, pp71, pp150, gB, gH, IE-1, IE-2, US2, US3, US6, US11 or UL18. The peptide comprises a sequence of about 9-20 contiguous amino acids of the antigen. The peptide epitopes are useful in diagnosing, preventing or reacting cytomegalovirus infection in humans, and in monitoring immune responses in various clinical settings (e.g. transplantation or pregnancy). This sequence represents a human cytomegalovirus CTL epitope peptide of the invention.

9 AA;

December 11, 2003 07:10 Type: P Check: 3267 ABJ38048 Length: 9

Virucide; immunostimulant; cytotoxic T-lymphocyte; CTL; epitope; antigen; human cytomegalovirus; HCMV; pp28; pp50; pp65; pp71; pp150; gB; gH; IE-1; IE-2; US2; US3; US6; US11; UL18; cytomegalovirus infection; pregnancy;

(COUN-) COUNCIL QUEENSLAND INST MEDICAL RES.

Elkington RA, Walker SJ, Khanna R,

New human cytomegalovirus (CMV) cytotoxic T-cell epitope peptide, useful for diagnosing, preventing or treating CMV infection, comprises pp28, pp50, pp65, pp71, pp150, gB, gH, IE-1, IE-2, US2, US3, US6, US11 or UI18

Claim 47; Page 117; 308pp; English.

The invention relates to a novel isolated peptide comprising one or more ortotoxic T-lymphocyte (CTL) epitope(s) of the same or different antigen of a human cytomegalovirus (HCMV). The HCMV antigens can comprise pp28, pp50, pp65, pp71, pp150, gB, qH, IE-1, IE-2, US2, US3, US6, US11 or UJ18, The peptide comprises a sequence of about 9-20 contiguous amino acids of the antigen. The peptide epitopes are useful in diagnosing, preventing or treating cytomegalovirus infection in humans, and in monitoring immune presponses in various clinical settings (e.g. transplantation or pregnancy). This sequence represents a human cytomegalovirus CTL epitope peptide of the invention.

9 AA; Sequence

ABJ38078 Length: 9 December 11, 2003 07:10 Type: P Check: 3452

KMTATFLSK

ABR01872 standard; Peptide; 9 AA. ABR01872; ! AA SEQUENCE

(first entry) 19-MAY-2003

Human cancer-related protein 74P3B3 HLA peptide #7

vaccine; cancer; immune response; HLA; Human; cytostatic; vacci human leukocyte antigen.

Homo sapiens

WO200283921-A2

10-APR-2002; 2002WO-US11654.

10-APR-2001; 2001US-282739P. 10-APR-2001; 2001US-283112P. 25-APR-2001; 2001US-286630P.

(AGEN-) AGENSYS INC.

Hubert Ge ĭĭ, Faris M, Jakobovits A, Challita-Eid FM, Faris Morrison K, Morrison RK, Raitano AB;

WPI; 2003-075555/07.

New composition comprising a substance that modulates the structure of proteins and polynuclectides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response in cancer patients

Claim 13; Page 131; 1021pp; English.

The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or

vaccine; cancer; immune response; HLA;

Human; cytostatic; vacci human leukocyte antigen.

Human cancer-related protein 74P3B3 HLA peptide #601.

(first entry)

19-MAY-2003

ABR02466 standard; Peptide; 9 AA.

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diagnosis and/or prognosis of cancer, as coding sequences capable of diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and therapeutic, prognostic and proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
                                                                                                                                                                                        Check: 3352
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                                                                                                                                                                                                                                                                                                                                                                                                 Human; cytostatic; vaccine; cancer; immune response; HLA;
human leukocyte antigen.
                                                                                                                                                                                                                                                                                                                                                                 Human cancer-related protein 74P3B3 HLA peptide #408.
                                                                                                                                                                                        Type: P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A, Challica-bid..., Morrison RK, Raitano AB;
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                                                                                                                                                                                                                                      !!AA_SEQUENCE 1.0
ID ABR02273 standard; Peptide; 9 AA.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in cancer patients
                                                                                                                                                      9 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Jakobovits A
                                                                                                                                                                                                                                                                                                 ABR02273;
                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ношон
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New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response

Claim 13; Page 137; 1021pp; English.

in cancer patients

Hubert RS;

Ge ₩,

Faris M,

Jakobovits A, Challita-mid e.,, Marrison K, Morrison RK, Raitano AB;

WPI; 2003-075555/07.

10-APR-2001; 2001US-282739P. 10-APR-2001; 2001US-283112P. 25-APR-2001; 2001US-286630P.

(AGEN-) AGENSYS INC.

10-APR-2002; 2002WO-US11654.

WO200283921-A2

24-OCT-2002

Homo sapiens.

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transcripts, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of diagnosis and/or prognosis of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, an as therapeutic, agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
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ID ABR02921 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200283921-A2
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inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example

from the invention.

December 11, 2003 07:10 Type: P Check: 3352

ABR02273 Length: 9

Sequence

HVGPSAAPK

: ! AA_SEQUENCE 1.0

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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capabale of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
                                                                                                                                                                                                New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    December 11, 2003 07:10 Type: P Check: 3352
                                                                                                                              Ge W, Hubert RS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; cytostatic; vaccine; cancer; immune response; HLA; human leukocyte antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human cancer-related protein 109P1D4 HLA peptide #45
                                                                                                                              Faris M,
                                                                                                                     Jakobovits A, Challica-bac...,
                                                                                                                                                                                                                                                                        Claim 13; Page 141; 1021pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABR06110 standard; Peptide; 9 AA
                                     2001US-282739P.
2001US-283112P.
2001US-286630P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-APR-2001; 2001US-282739P.
10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-APR-2002; 2002WO-US11654.
            10-APR-2002; 2002WO-US11654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                (AGEN-) AGENSYS INC.
                                                                                                                                                                     WPI; 2003-075555/07
                                                                                                                                                                                                                                             in cancer patients
                                                                                                                                                                                                                                                                                                                                                                                                                                                           from the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABR02921 Length: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200283921-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HVGPSAAPK
                                                      10-APR-2001;
25-APR-2001;
                                       10-APR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              !! AA SEQUENCE 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-MAY-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
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New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and

Hubert RS

Ge w,

Faris M,

Challita-Bid PM,

Jakobovits A, Chair...

(AGEN-) AGENSYS INC

WPI; 2003-075555/07.

Raitano AB;

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process are useful for eliciting a humoral or cellular immune response. The genes are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNRs or their fragments, as reagents for the disponsis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humaneral or cellular immune response. The genes are useful as probes and primers for the amplification and/or diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an exemple
                                                                                                ant invention relates to novel human cancer-related genes and (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New composition comprising a substance that modulates the structure of
proteins and polymuclectides, useful for therapeutic, prognostic and
diagnostic reagents for eliciting cellular or humoral immune response
in cancer patients
diagnostic reagents for eliciting cellular or humoral immune response
                                                                                                                                                                                                                                                                                                                                                                                             December 11, 2003 07:10 Type: P Check: 3620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         vaccine; cancer; immune response; HLA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hubert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human cancer-related protein 109PlD4 HLA peptide #440.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ge ₩,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Faris M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Jakobovits A, Challita-Eid PM, Faris Morrison K, Morrison RK, Raitano AB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 13; Page 177; 1021pp; English.
                                                           Claim 13; Page 173; 1021pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABR06505 standard; Peptide; 9 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-APR-2001; 2001US-282739P.
10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-MAY-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human leukocyte antigen.
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                      in cancer patients
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                               ABR06110 Length: 9
                                                                                                                                                                                                                                                                                                                                                          9 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                      1 RTGMLTVVK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           !!AA_SEQUENCE 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-0CT-2002.
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ABR06505

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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humaneral or callular immune response. The genes are useful as probes and primers for the samplification and/or diagnosis and/or prognosts of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           December 11, 2003 07:10 Type: P Check: 3460
                               Human; cytostatic; vaccine; cancer; immune response; HLA; human leukocyte antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    vaccine; cancer; immune response; HLA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human cancer-related protein 156P1D4 HLA peptide #418.
                                                                                                                                                                                                                                                                                                                                                                    Challita-Eid PM, Faris M,
                                                                                                                                                                                                                                                                                                                                                                                      Morrison RK, Raitano AB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 13; Page 230; 1021pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    !!AA_SEQUENCE 1.0
ID ABR12183 standard; Peptide; 9 AA.
                                                                                                                                                                                                        10-APR-2002; 2002WO-US11654.
                                                                                                                                                                                                                                              10-APR-2001; 2001US-282739P.
10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human leukocyte antigen
                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-075555/07.
                                                                                                                                                                                                                                                                                                                            (AGEN-) AGENSYS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               in cancer patients
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 from the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9 AA;
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                                                                                                                            WO200283921-A2
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                                                                                                                                                                                                                                                                                                                                                                Jakobovíts A,
                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                      Morrison K,
                                                                                                                                                                   24-0CT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABR12183;
          The present invention relates to novel human cancer-related genes and proteins (AB278120-AB278168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humanal or cellular immune response. The genes are useful for proteins and primers for the amplification and/or diagnosis and/or proquosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukcoyte antigen (HLA) peptide, used in an example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response in cancer patients
                                                                                December 11, 2003 07:10 Type: P Check: 3620
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hubert RS
                                                                                                                                                                                                                                                                                                                                       Human; cytostatic; vaccine; cancer; immune response; HLA; human leukocyte antigen.
                                                                                                                                                                                                                                                                                               Human cancer-related protein 109P1D4 HLA peptide #607.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human cancer-related protein 156P1D4 HLA peptide #30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ge ™,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A, Challita-Eid PM, Faris M, 'Morrison RK, Raitano AB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 13; Page 179; 1021pp; English
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ID ABR11795 standard; Peptide; 9 AA
                                                                                                                                                           !!AA_SEQUENCE 1.0
ID ABR06672 standard; Peptide; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-APR-2001; 2001US-282739P.
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                                                                                                                                                                                                                                                            (first entry)
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from the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       from the invention
                                         9 AA;
                                                                                Length: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABR06672 Length: 9
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                                                                                                                      RIGMLIVVK
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                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                            19-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Jakobovits A
Morrison K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-MAY-2003
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                                           Seguence
                                                                                                                                                                                                                     ABR06672;
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BX BX BX B

Hubert RS;

Ge ™

Raitano AB;

seq28-agen.res

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New composition comprising a substance that modulates the structure of proteins and polymucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
                    Challita-Eid PM, Faris M, Ge W, Hubert RS;
                                                                                                                       Claim 13; Page 234; 1021pp; English.
                               Morrison RK,
(AGEN-) AGENSYS INC.
                                                  WPI; 2003-075555/07
                                                                                                     in cancer patients
                     Jakobovits A,
                               Morrison K,
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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the adgnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention. 9 AA; Sequence

ABR12183 Length: 9 December 11, 2003 07:10 Type: P Check: 3460

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Human cancer-related protein 156P1D4 HLA peptide #608
         Ä
         ABR12373 standard; Peptide; 9
                     (first entry)
KAMVAFSMR
    !!AA SEQUENCE 1.0
                      19-MAY-2003
               ABR12373;
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Human; cytostatic; vaccine; cancer; immune response; HLA; human leukocyte antigen.

Homo sapiens.

WO200283921-A2 24-OCT-2002. 10-APR-2002; 2002WO-US11654. 10-APR-2001; 2001US-282739P.

10-APR-2001; 2001US-283112P. 25-APR-2001; 2001US-286630P.

(AGEN-) AGENSYS INC.

Challita-Eid PM, Faris M, Ge W, Hubert RS; Morrison RK, Raitano AB; Jakobovits A, Morrison K,

WPI; 2003-075555/07.

New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response in cancer patients

Claim 13; Page 236; 1021pp; English.

The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and

The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example proteins are useful for eliciting a humoral or cellular immune response. from the invention.

Sequence 9 AA; 888888888888888 ABR12373 Length: 9 December 11, 2003 07:10 Type: P Check: 3460

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Human, cytostatic; vaccine, cancer; immune response; HLA; human leukocyte antigen.
                                                                                                                                                                                                                                        Human cancer-related protein 156P1D4 HLA peptide #1074.
                                                                             ABR12839 standard; Peptide; 9 AA.
                                                                                                                                                                                  (first entry)
1 KAMVAFSMR
                                                   SEQUENCE 1.0
                                                                                                                                                                                    19-MAY-2003
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Homo sapiens

24-OCT-2002.

.0-APR-2002; 2002WO-US11654.

10-APR-2001; 2001US-282739P. 10-APR-2001; 2001US-283112P. 25-APR-2001; 2001US-286630P.

(AGEN-) AGENSYS INC.

Hubert RS; Ge W, Faris M, Raitano AB; Challita-Eid PM, Jakobovits A, Charre

WPI; 2003-075555/07.

New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response cancer patients

Claim 13; Page 240; 1021pp; English.

The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.

9 AA; Seguence ABR12839 Length: 9 December 11, 2003 07:10 Type: P Check: 3460

1 KAMVAFSMR

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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humanal or cellular immune response. The genes are useful a probes and primers for the amplification and detection of genes, mRNAs or their fragments, as reagents for the adjaposis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, a tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
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                                                                                                                                            Human; cytostatic; vaccine; cancer; immune response; HLA;
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                                                                                                          Human cancer-related protein 161P2B7A HLA peptide #16.
                                                                                                                                                                                                                                                                                                                                                                                                                      Faris M,
                                                                                                                                                                                                                                                                                                                                                                                                                                         Morrison RK, Raitano AB;
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!!AA_SEQUENCE 1.0
ID ABR14581 standard; Peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABR14859 standard; Peptide; 9 AA.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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                                                                             (first entry)
                                                                                                                                                             human leukocyte antigen.
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                                                                              19-MAY-2003
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Ge W, Hubert RS;

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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic genes. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.
                                                                                                                                                                                                                                                               New composition comprising a substance that modulates the structure of
                                                                                                                                                                                                                                                                               proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
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                                                                                                                                                                               Challita-Eid PM, Faris M, Ge W, Hubert RS;
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human leukocyte antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human cancer-related protein 161P2B7A HLA peptide #404.
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                                                                                                                                                                                               Morrison RK, Raitano AB;
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                                                                                                                                                                                                                                                                                                                                                 Claim 13; Page 260; 1021pp; English.
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ID _ABR14969 standard; Peptide; 9 AA.
                                               10-APR-2002; 2002WO-US11654.
                                                                                               10-APR-2001; 2001US-283112P. 25-APR-2001; 2001US-286630P.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
                                                                                 10-APR-2001; 2001US-282739P.
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               24-0CT-2002
                                                                                                                                                                                               Morrison K,
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structure of

The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic gents. The proteins and peptides are useful as sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention. proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response a substance that modulates the Claim 13; Page 262; 1021pp; English New composition comprising cancer patients

9 AA; Seguence

Type: P Check: 3625 December 11, 2003 07:10 ABR14969 Length: 9

RVQVWFQNR

!!AA_SEQUENCE 1.0 ID ABR15167 standard; Peptide; 9 AA.

ABR15167;

(first 19-MAY-2003 Human cancer-related protein 161P2B7A HLA peptide #602.

vaccine; cancer; immune response; HLA;

Human, cytostatic, vacchuman leukocyte antigen

WOZ00283921-A2.

24-OCT-2002

10-APR-2002; 2002WO-US11654.

10-APR-2001; 2001US-282739P. 10-APR-2001; 2001US-283112P. 25-APR-2001; 2001US-286630P.

(AGEN-) AGENSYS INC

Hubert RS; Ge ₩, Faris M, Raitano AB: PM. Challita-Eid Morrison RK, R ď Jakobovits Morrison K,

WPI; 2003-075555/07.

New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response patients cancer ij

Claim 13; Page 264; 1021pp; English.

ABR15461 Length: 9 December 11, 2003 07:10 Type: P Check: 3625

9 AA;

Sequence

!!AA_SEQUENCE 1.0 ID ABR15655 standard; Peptide; 9 AA.

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(first entry)

19-MAY-2003

ABR15655;

HXXXH

proteins (ABZ78120-ABZ78168 and ABR01989-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as The present invention relates to novel human cancer-related genes and

transcripts, and The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic genes. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention. therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention. 당 proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response in cancer patients New composition comprising a substance that modulates the structure Check: 3625 RS; vaccine; cancer; immune response; HLA; Hubert Human cancer-related protein 161P2B7A HLA peptide #896. Type: P 3 9 Faris M, December 11, 2003 07:10 Morrison RK, Raitano AB; Claim 13; Page 266; 1021pp; English. 11AA_SEQUENCE 1.0 ID ABR15461 standard; Peptide; 9 AA. Challita-Eid PM, 10-APR-2001; 2001US-282739P. 10-APR-2001; 2001US-283112P. 25-APR-2001; 2001US-286630P. 10-APR-2002; 2002WO-US11654 19-MAY-2003 (first entry) Human; cytostatic; vacci human leukocyte antigen. WPI; 2003-075555/07. (AGEN-) AGENSYS INC 9 AA; ABR15167 Length: 9 RVQVWFQNR WO200283921-A2 Jakobovits A, Homo sapiens 24-0CT-2002 Morrison K, Seguence ABR15461; 886666 25-APR-2001; 2001US-286630P,

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transcripts, and
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                                               Human; cytostatic; vaccine; cancer; immune response; HLA
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                 Human cancer-related protein 161P2B7A HLA peptide #1090
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Morrison K, Morrison RK, Raitano AB;
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ID ABR17368 standard; Peptide; 9 AA.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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10-APR-2001; 2001US-283112P.
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                                                             human leukocyte antigen
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                                                                                             Homo sapiens
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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or callular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
                                                                                                                                  New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
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                                                              Hubert RS;
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human leukocyte antigen.
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                                                              Ge ₩,
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                                                              Faris
                                                                            Raitano AB;
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ID ABR17385 standard; Peptide; 9 AA.
                                                           Challita-Eid PM,
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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                                                                          Morrison RK,
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                                                                                                      WPI; 2003-075555/07.
                             (AGEN-) AGENSYS INC
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                                                         Jakobovits A,
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                                                                            Morrison K,
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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or callular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic genes. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.
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9 AA; Sequence ABR17385 Length: 9 December 11, 2003 07:10 Type: P Check: 3587

1 HVQNFLLYR

!!AA SEQUENCE 1.0 ID ABR17774 standard; Peptide; 9 AA. 19-MAY-2003 (first entry) ABR17774;

Human cancer-related protein 184P3C10B HLA peptide #409.

Human; cytostatic; vaccine; cancer; immune response; HLA; human leukocyte antigen.

Homo sapiens.

WO200283921-A2.

24-OCT-2002

10-APR-2002; 2002WO-US11654.

10-APR-2001; 2001US-282739P. 10-APR-2001; 2001US-283112P. 25-APR-2001; 2001US-286630P.

(AGEN-) AGENSYS INC.

Hubert RS; Ge ™, Faris M, Raitano AB; Challita-Eid PM, Morrison RK, Jakobovits A, Morrison K,

WPI; 2003-075555/07.

New composition comprising a substance that modulates the structure of proteins and polynuclectides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response in cancer patients

Claim 13; Page 292; 1021pp; English.

The present invention relates to novel human cancer-related genes and proteins (ABZ70120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers or the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.

Sequence

ABR17774 Length: 9 December 11, 2003 07:10 Type: P Check: 3587

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New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response in cancer patients
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                                                                                                      Human; cytostatic; vaccine; cancer; immune response; HLA;
                                                                                   Human cancer-related protein 184P3C10B HLA peptide #442.
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                  10-APR-2001; 2001US-282739P.
10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
                                                                                                                                                                                                                                                                      Challita-Eid
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                                                                 (first entry)
                                                                                                                human leukocyte antigen.
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HVQNFLLYR
                                                                                                                                    Homo sapiens.
                                                                 19-MAY-2003
                                                                                                                                                                         24-0CT-2002
                                              ABR17807;
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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapoeutic agents. The proteins and peptides are useful as therapoeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention

Sequence 9 AA;

ABR17807 Length: 9 December 11, 2003 07:10 Type: P Check: 3742

ABR17968 standard; Peptide; 9 HAA SEQUENCE 1.0

ABR17968;

19-MAY-2003 (first entry)

Human cancer-related protein 184P3C10B HLA peptide #603.

Human; cytostatic; vaccine; cancer; immune response; HLA;

human leukocyte antigen.

Homo sapiens

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Challita-Eid PM, Faris M,
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                                                                                                                                                                  Claim 13; Page 294; 1021pp; English.
                                                                                                                                                                                                                                                                                                                               ABR17996 standard; Peptide; 9 AA
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25-APR-2001; 2001US-286630P.
                                                        10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
                                   10-APR-2002; 2002WO-US11654.
                                                 10-APR-2001; 2001US-282739P.
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                                                                                                   Morrison RK,
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human leukocyte antigen.
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                                                                              (AGEN-) AGENSYS INC.
                                                                                                                  WPI; 2003-075555/07.
                                                                                                                                                      in cancer patients
                                                                                                                                                                                                                                                                 from the invention
                                                                                                                                                                                                                                                                                Sequence 9 AA;
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        WO200283921-A2.
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Morrison K, N
                                                                                           Jakobovits A,
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                                                                                                     Morrison K,
                     24-OCT-2002
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(AGEN-) AGENSYS INC.
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WPI; 2003-075555/07.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABR19457;
     The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful a probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ79168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic gents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
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New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
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                                                                                                                              Claim 13; Page 295; 1021pp; English
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| ABR19457 standard; Peptide; 9 AA.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01661). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the adjaponsis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
inhibiting the expression of genes and/or translation of transcripts, and
                  as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
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                                                                                                                                                          Type: P Check: 3645
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                                                                                                                                                                                                                                                                                                                                                                                                            Human; cytostatic; vaccine; cancer; immune response; HLA;
                                                                                                                                                                                                                                                                                                                                                                         Human cancer-related protein 185P2C9 HLA peptide #12.
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                                                                                                                                                      ABR19457 Length: 9 December 11, 2003 07:10
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                                                                                                                                                                                                                                                        ABR20177 standard; Peptide; 9 AA.
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25-APR-2001; 2001US-286630P.
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                                                                                                                                                                                                                                                                                                                                                                                                                               human leukocyte antigen.
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                                                                                from the invention
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ABR20177 Length: 9 December 11, 2003 07:10 Type: P Check: 3414

!!AA_SEQUENCE 1.0 ID ABR20256 standard; Peptide; 9 AA.

ABR20256;

1 RTSPGMAQK

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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
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                                                                             vaccine; cancer; immune response; HLA;
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                                              Human cancer-related protein 185P2C9 HLA peptide #91
                                                                                                                                                                                                                                                                                                                                                         Ge W,
                                                                                                                                                                                                                                                                                                                                                           Faris M,
                                                                                                                                                                                                                                                                                                                                                         Jakobovits A, Challita-Eid PM, Faris Morrison K, Morrison RK, Raitano AB;
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ID _ABR20265 standard; Peptide; 9 AA.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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               19-MAY-2003 (first entry)
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human leukocyte antigen.
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human leukocyte antigen.
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Ge W, Hubert RS;

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proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The games are useful a probes and primers for the amplification and/or detection of genes, mRNAs or their tragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modularing or inhibiting the expression of genes and/or translation of transcripts, as the proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
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                                                                                                                                                                                                                                                                                             The present invention relates to novel human cancer-related genes and
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                                                                                               Challita-Eid PM, Faris M,
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                                                                                        Jakobovits A, Challita-bit ...,
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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                   10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P
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                                                                  (AGEN-) AGENSYS INC.
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The present invention relates to novel human cancer-related genes and proteins (ABZ70120-ABZ70168 and ABR01789-ABR01661). The genes and proteins are useful for eliciting a humanel or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic genes. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
                              The present invention relates to novel human cancer-related genes and proteins (ABZ70120-ABZ70168 and ABR01709-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and poptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response in cancer patients
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; cytostatic; vaccine; cancer; immune response; HLA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human cancer-related protein 185P2C9 HLA peptide #431.
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Claim 13; Page 324; 1021pp; English.
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ID _ABR20596 standard; Peptide; 9 AA.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          human leukocyte antigen.
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                                                                                                                                                                                                                                                                     from the invention.
                                                                                                                                                                                                                                                                                                           Sequence 9 AA;
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9 AA;

Sequence

Ge W, Hubert RS;

seq28-agen.res

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Challita-Eid PM,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human leukocyte antigen
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                                                                                                                                       (AGEN-) AGENSYS INC.
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                                                                                                                                                                                                                                                                                                                                                                                                             from the invention
                              WO200283921-A2.
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          Homo sapiens.
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                                                                                                                                                            Jakobovits A
Morrison K,
                                                    24-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABR20813
The present invention relates to novel human cancer-related genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
                                                                                                                                                                                                                                                                                                                                                                                  New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
      December 11, 2003 07:10 Type: P Check: 3414
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                                                                                                                                                                                                                                                                                                                                  Hubert RS;
                                                                                                                                              Human; cytostatic; vaccine; cancer; immune response; HLA;
human leukocyte antigen.
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                                                                                                                         Human cancer-related protein 185P2C9 HLA peptide #604.
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                                                                                                                                                                                                                                                                                                                                 Faris M,
                                                                                                                                                                                                                                                                                                                                           Raitano AB;
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                                                             AA.
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                                               !!AA_SEQUENCE 1.0
ID ABR20769 standard; Peptide; 9
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ABR20770 standard; Peptide; 9
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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      Length: 9
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                            RISPGMAOK
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      ABR20596
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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the adjagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present expression have a sequence is a human leukocyte antigen (HLA) peptide, used in an example
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ID ABR20813 standard; Peptide; 9 AA.
10-APR-2002; 2002WO-US11654.
                                                                                                                           10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
                                                                               10-APR-2001; 2001US-282739P.
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Hubert RS;

Ge ₩,

Faris M,

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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic genes. The proteins and peptides are useful as sequence is a human leukocyte antigen (HLA).peptide, used in an example from the invention.
                                                            New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human cancer-related protein 185P2C9 HLA peptide #1476.
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   Raitano AB
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                                                                                                                                        Claim 13; Page 327; 1021pp; English
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ID ABR21641 standard; Peptide; 9 AA.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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Morrison K, Morrison RK, R
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   Morrison RK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  human leukocyte antigen.
                               WPI; 2003-075555/07
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                                                                                                             in cancer patients
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 Morrison K,
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Check: 3604

The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the

Claim 13; Page 337; 1021pp; English.

cancer patients

Hubert RS;

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diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
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                                                                                                                                                                                                                                                                                                                                                                                                      vaccine; cancer; immune response; HLA;
                                                                                                                                                                                                                                                                                                                                                                   Human cancer-related protein 185P2C9 HLA peptide #1487.
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ID ABR21970 standard; Peptide; 9 AA.
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ID ABR21652 standard; Peptide; 9
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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Morrison K, Morrison RK,
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                                                                                                    from the invention
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in cancer patients
                                                                                                                                        9 AA;
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proteins (ABZ78120-ABZ78168 and ABR01189-ABR01861). The genes and proteins are useful for eliciting a humoral or callular immune response. The genes are useful for eliciting a humoral or callular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of inhibiting the expression of the protein, as tools for modulating or as therapeutic agents. The protein, as tools for modulating or as therapeutic agents. The proteins and peptides are useful as sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.
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                                                                                                       Human; cytostatic; vaccine; cancer; immune response; HLA;
human leukocyte antigen.
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                                                                          Human cancer-related protein 185P2C9 HLA peptide #1805.
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25-APR-2001; 2001US-286630P.
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                                             (first entry)
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Hubert RS;

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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ73168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.
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Morrison RK, Raitano AB;
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ID _ABR22207 standard; Peptide; 9 AA.
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10-APR-2002; 2002WO-US11654.
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25-APR-2001; 2001US-286630P.
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25-APR-2001; 2001US-286630P.
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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01661). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic genes. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.
                                                                                        proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
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                                                                             The present invention relates to novel human cancer-related genes and
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                                       Claim 13; Page 343; 1021pp; English.
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ID ABR22978 standard; Peptide; 9 AA.
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in cancer patients
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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.
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                                                  ABR22978 Length: 9 December 11, 2003 07:10 Type: F Check: 3414
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ID ABR23059 standard; Peptide; 9 AA.
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25-APR-2001; 2001US-286630P.
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proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and
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cytostatic; vaccine; cancer; immune response; HLA;
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Raitano AB;
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ID ABR23369 standard; Peptide; 9 AA.
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25-APR-2001; 2001US-286630P.
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proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of inhibiting the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
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                                   Faris
                                Jakobovits A, Challita-Eid PM, Faris Morrison K, Morrison RK, Raitano AB;
                                                                                                                                                                                                                                                                                                                                                                                Claim 13; Page 357; 1021pp; English.
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ID _ABR23370 standard; Peptide; 9 AA.
                         Challita-Eid PM,
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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Morrison K, Morrison RK,
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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ8168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and detection of genes, mRNAs or their fragments, as reagents for the adjaposis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
                  detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example
The genes are useful as probes and primers for the amplification and/or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; cytostatic; vaccine; cancer; immune response; HLA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human cancer-related protein 185P2C9 HLA peptide #3232.
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Morrison K, Morrison RK, Raitano AB;
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                                                                                                                                                                                                                                                                                                                                                                              ABR23397 standard; Peptide; 9 AA
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25-APR-2001; 2001US-286630P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human leukocyte antigen.
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ABR23397 Length: 9 December 11, 2003 07:10 Type: P Check: 3414

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The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.
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                                                                                                                                                  Human; cytostatic; vaccine; cancer; immune response; HLA;
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                                                                                                                 Human cancer-related protein 185P2C9 HLA.peptide #3404.
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               ABR23569 standard; Peptide; 9 AA.
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10-APR-2001, 2001US-283112P.
25-APR-2001, 2001US-286630P.
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!! AA SEQUENCE 1.0
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proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their tragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of incetting the expression of the protein, as tools for modulating or as therapeutic genes and/or translation of transcripts, and as therapeutic genes. The proteins and peptides are useful as sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.
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                                                                                                                                                                                                                                                                                                                              present invention relates to novel human cancer-related genes and
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human leukocyte antigen.
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                                                                                                                                                 l PM, Faris M,
Raitano AB;
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Raitano AB;
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ID ABR23574 standard; Peptide; 9 AA.
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                                                         10-APR-2001; 2001US-282739P.
10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
                             10-APR-2002; 2002WO-US11654.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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                                                                                                                                                                                                                                                                   cancer patients
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24-OCT-2002
                                                                                                                                                             Morrison K,
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Morrison K,
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proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response in cancer patients

Claim 13; Page 359; 1021pp; English

The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78188 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention

Hubert RS;

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ABR23574 Length: 9 December 11, 2003 07:10 Type: P Check: 3538

RLPAGSTVK

ABR23614 standard; Peptide; 9 AA ! AA_SEQUENCE 1.0

ABR23614;

19-MAY-2003 (first entry)

Human cancer-related protein 185P2C9 HLA peptide #3449.

cytostatic; vaccine; cancer; immune response; HLA; human leukocyte antigen. Human;

Homo sapiens

WO200283921-A2.

24-OCT-2002.

10-APR-2002; 2002WO-US11654

10-APR-2001; 2001US-282739P. 10-APR-2001; 2001US-283112P. 25-APR-2001; 2001US-286630P.

(AGEN-) AGENSYS INC.

Ge W, Hubert RS; Challita-Eid PM, Faris M, Jakobovits A, Challita-Eid PM, Faris Morrison K, Morrison RK, Raitano AB;

WPI; 2003-075555/07.

New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response in cancer patients

Claim 13; Page 360; 1021pp; English.

proteins (ABZ78120-ABZ78168 and ABRO1789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present The present invention relates to novel human cancer-related genes and

Hubert RS;

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Human cancer-related protein 185P3C3 HLA peptide #463.
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sequence is a human leukocyte antigen (HLA) peptide, used in an example
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                                                                                                                                                                   December 11, 2003 07:10 Type: P Check: 3604
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Morrison K, Morrison RK, Raitano AB;
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ABR24428 standard; Peptide; 9 AA.
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ABR24828 standard; Peptide; 9 AA.
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10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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                                               from the invention.
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                                                                                                                                                                         ABR23614 Length: 9
                                                                                                         9 AA
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                                                                                                     Sequence
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                                                                                                                                                                                                                                                                                                !!AA_SEQUENCE
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inhibiting the expression of generally translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hubert RS;
Human; cytostatic; vaccine; cancer; immune response; HLA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; cytostatic; vaccine; cancer; immune response; HLA;
human leukocyte antigen.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Morrison RK, Raitano AB;
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ID ABR25013 standard; Peptide; 9 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Challita-Eid PM,
                                                                                                                                                                                                                                                                                                                                     10-APR-2001; 2001US-282739P.
10-APR-2001; 2001US-283112P.
25-APR-2001; 2001US-286630P.
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2001US-283112P.
2001US-286630P.
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                             human leukocyte antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (AGEN-) AGENSYS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-075555/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  in cancer patients
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                                                                                                                                                  WO200283921-A2.
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Morrison K, M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KSPGNGSLR
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10-APR-2001;
25-APR-2001;
                                                                                           Homo sapiens
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seq28-agen.res

New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response Claim 13; Page 376; 1021pp; English. (AGEN-) AGENSYS INC. WPI; 2003-075555/07 cancer patients Jakobovits A, Morrison K, N in

The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01681). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or as therapeutic agents. The proteins and peptides are useful as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention 9 AA; Sequence

December 11, 2003 07:10 Type: P Check: 3508 ABR25013 Length: 9

KSPGNGSLR

!!AA_SEQUENCE 1.0 ID ABR27626 standard; Peptide; 9 (first entry) 19-MAY-2003 ABR27626;

Human cancer-related protein 187P3F2 HLA peptide #461.

Human; cytostatic; vaccine; cancer; immune response; HLA; human leukocyte antigen.

Homo sapiens.

WO200283921-A2

24-OCT-2002

10-APR-2002; 2002WO-US11654.

10-APR-2001; 2001US-282739P. 10-APR-2001; 2001US-283112P. 25-APR-2001; 2001US-286630P.

(AGEN-) AGENSYS INC

Hubert RS;

Ge ™,

Faris M,

Morrison RK, Raitano AB;

Challita-Eid PM,

Jakobovits A, Morrison K, M

New composition comprising a substance that modulates the structure of proteins and polynucleotides, useful for therapeutic, prognostic and diagnostic reagents for eliciting cellular or humoral immune response WPI; 2003-075555/07

Claim 13; Page 406; 1021pp; English.

in cancer patients

The present invention relates to novel human cancer-related genes and

proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequences capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as therapeutic, prognostic and diagnostic reagents for cancer. The present sequence is a human leukocyte antigen (HLA) peptide, used in an example from the invention.

88888888888888888

Ge W, Hubert RS;

1 PM, Faris M, Raitano AB;

Challita-Eid PM,

Morrison RK,

9 AA Sequence Check: 3469 Type: P December 11, 2003 07:10 ABR27626 Length: 9

1 HQWVTALPH

SEQUENCE 1.0 ABR27791 standard; Peptide; 9 AA.

! ! AA

ABR27791;

(first entry) 19-MAY-2003 Human cancer-related protein 187P3F2 HLA peptide #626.

Human, cytostatic, vaccine, cancer, immune response, HLA, human leukocyte antigen.

Homo sapiens

WO200283921-A2.

24-OCT-2002

10-APR-2002; 2002WO-US11654

10-APR-2001; 2001US-282739P. 10-APR-2001; 2001US-283112P. 25-APR-2001; 2001US-286630P.

(AGEN-) AGENSYS INC.

Ge W, Hubert RS; Faris M, Morrison RK, Raitano AB; Challita-Eid PM, Jakobovits A, Morrison K,

WPI; 2003-075555/07.

the structure of prognostic and immune response modulates the New composition comprising a substance that modulates proteins and polynucleotides, useful for therapeutic, diagnostic reagents for eliciting cellular or humoral in cancer patients

Claim 13; Page 408; 1021pp; English.

The present invention relates to novel human cancer-related genes and proteins (ABZ78120-ABZ78168 and ABR01789-ABR01861). The genes and proteins are useful for eliciting a humoral or cellular immune response. The genes are useful as probes and primers for the amplification and/or detection of genes, mRNAs or their fragments, as reagents for the diagnosis and/or prognosis of cancer, as coding sequence capable of directing the expression of the protein, as tools for modulating or inhibiting the expression of genes and/or translation of transcripts, and as therapeutic agents. The proteins and peptides are useful as examble present therapeutic, prognostic and diagnostic reagents for cancer. The sequence is a human leukocyte antigen (HLA) peptide, used in an from the invention.

9 AA; Sequence Check: 3469 Type: P December 11, 2003 07:10 ABR27791 Length: 9

1 HQWVTALPH

ABG76066 standard; peptide; 9 AA : AA_SEQUENCE 1.0

ABG76066;

16-MAY-2003 (first entry)

Human regulatory peptide, bradykinin.

Human; bradykinin; pain signal transmission; tubercular disease; peptide mimetic; lymphocyte stimulation; tissue repair regulation; endogenous defence system activation; haematopoiesis; Candida albicans; microbial infection; bacterial growth inhibition; German measles; Staphylococcus epidermis; Streptococcus pyogenes; Aspergillus fumigatus; fungal growth inhibition; topically manifested viral infection; rubeola; viral warts; human papillomavirus; Herpes simplex type II; human herpesvirus 3; abscess; meningitis; Wolluscum contagiosum virus; measles; rubella, cutaneous anthrax; septic arthritis; emphysema; impetigo; cellulitis; pneumonia; broad spectrum antimicrobial activities; simus infection.

WO2002102835-A2

20-NOV-2001; 2001WO-US43195.

21-NOV-2000; 2000US-252369P

(NEWE-) NEW ENGLAND MEDICAL CENT INC.

Carr Lipkowski AW,

WPI; 2003-201349/19

Antimicrobial composition useful for inhibiting growth of e.g. bacteria comprises substance P peptide

Example 1; Page 11; 24pp; English.

The invention relates to an antimicrobial composition comprising a substance P (SP) peptide or peptide mimeric. Substance P is a member of the tachykinin family and is involved in pain signal transmission, direct stimulation of lymphocytes, regulation of tissue repair, can induce haematopoiesis and is involved in activation of endogenous defence are reported in involved in activation of endogenous defence microbial infection and inhibiting growth of virus, fungs or bacteria. The peptide and peptide mimetic are useful for inhibiting microbial infection and inhibiting stowh of virus, fungs or bacteria. The peptide inhibits growth of bacteria such as Staphylococcus epidermis and Streptococcus pyogenes, fungs such as Aspergillus funigatus and candida albicans. The composition is useful in treating topically manifested viral infection such as viral warts (human papillomavirus), Molluscum contagiosum virus, rubeola (measles) and rubella (German energe and papillomavirus) and type II, human herpesvirus 3 (chicken pox), Molluscum contagiosum virus, rubeola (measles) and rubella (German cutaneous anthrax, septic arthritis, emphysema, impetigo, cellulitis, pneumonia, sinus infection and tubercular disease. Also useful to agricultural workers and per connect to combat infections contracted by exposure to livestock or pet animals. The composition inhibits growth of both Gram positive and Gram negative bacterial species and possesses broad spectrum antimicrobial activities. The present sequence represents the amino acid sequence of the human regulatory peptide, bradykinin.

9 AA; Sequence ABG76066 Length: 9 December 11, 2003 07:10 Type: P Check: 3472

1 RPPGFSPFR

!! AA SEQUENCE 1.0

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Gastric Antrum Mucosal Protein 18, useful for preparing a composition
                                                             gastrokine; AMP-18; gastric antrum mucosal protein; mitogen;
                                              Human pre-gastrokine (pre-AMP-18) peptide 109-117.
                                                                                                                                                                                Agarwal K;
                                                                                                                                                                               Powell CT,
ABP58250 standard; Peptide; 9 AA.
                                                                                                                                  29-MAR-2002; 2002WO-US10148.
                                                                                                                                                 29-MAR-2001; 2001US-0821726
                               (first entry)
                                                                      growth factor; vulnerary.
                                                                                                                                                                               Toback FG, Martin TE,
                                                                                                                                                                (UYCH-) UNIV CHICAGO
                                                                                                                                                                                               MPI; 2003-120666/11
                                                                                                   WO200292758-A2.
                                                                                     Homo sapiens.
                              07-APR-2003
                                                                                                                  21-NOV-2002
               ABP58250;
                                                              Human:
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109-117 of human gastric antrum mucosal protein 18 (AMP-18) procursor polypeptide (see AMFS8257), a novel gastrokine. The AMP-18 protein, and active peptides derived from its sequence, are cellular growth factors and can be used to stimulate the growth of epithelial cells of the gastrointestinal tract (claimed) the concentration of peptide 109-117 for half-maximal growth stimulation (K1/2) of BSC-1 epithelial cells was 2.5 uM. The present sequence is that of a peptide comprising amino acids Disclosure; Page 24; 67pp; English.

for healing of the injured gastrointestinal tract

9 AA;

December 11, 2003 07:10 Type: P Check: 3451 ABP58250 Length: 9

SEQUENCE 1.0 AAE33297 standard; peptide; 9 AA. (first entry) 1 KGPGGPPPK 02-APR-2003 AAE33297;

Human pre-AMP-18 peptide #9.

Cellular growth stimulating protein; gastric antrum mucosal protein; gastrokine; AMP-18 protein; gastro-intestinal disorder; cell therapy; ulcer; human.

Homo sapiens

WO200278640-A2.

10-0CT-2002.

29-MAR-2002; 2002WO-US09885.

29-MAR-2001; 2001US-0821726.

(UYCH-) UNIV CHICAGO

Martin TE, Walsh-Reitz M; Toback GF, Immunogenic; therapy; immunoglobulin G1; IgG1; T-cell epitope; mutant;

I-cell epitope mutant peptide #1.

24-MAR-2003

AAE32632

gastrointestinal disorders or cellular stimulating proteins

WO200279415-A2

10-OCT-2002

Check: 3451

Type: P

Unidentified.

mutein.

| IAA_SEQUENCE 1.0 |D AAE32632 standard; peptide; 9 AA.

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The present invention relates to a method of reducing the immunogenicity of a fusion protein. The method involves identifying a candidate T-cell epitope. within a junction region spanning a fusion junction of a fusion protein and changing an amino acid within the junction region to reduce the ability of the candidate T-cell epitope to interact with a T-cell receptor. The method is useful for reducing the immunogenicity of fusion proteins for use in therapy. The present sequence is T-cell epitope. This sequence is used to illustrate the method of the invention.
                                                                                                                               The invention relates to a protein inhibitor which comprises homologous cellular growth stimulating proteins designated gastrokines. The invention also provides gastric entrum amoosal proteins designated AMP-18 which belongs to the novel group of gastrokines and mucleic acid molecules encoding such proteins. Pharmaceutical composition comprising proteing peptide derived from a gastrokine protein is useful for treating gastro-intestinal disorder or diseases associated with overgrowth of gastric epithelia e.g. ulcer. The invention is useful in cell therapy. The present sequence is human pre-AMP-18 peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Reducing the immunogenicity of a fusion protein by changing an amino acid within the junction region spanning a fusion junction of a fusion protein to reduce the ability of the candidate T-cell epitope to interact with a T-cell receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       [mmunogenic; therapy; immunoglobulin Gl; IgGl; T-cell epitope
                                                                                                                                                                                                                                                                                                                                               December 11, 2003 07:10
                                              useful for treating isolated homologous
                                                                                                   Disclosure; Page 35; 84pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 54; 67pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                ||AA_SEQUENCE 1.0
|ID AAE32631 standard; peptide; 9 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     T-cell epitope peptide
                WPI; 2003-103239/09.
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                                                Protein inhibitor,
                                                                    comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9 AA;
                                                                                                                                                                                                                                                                                                            9 AA;
                                                                                                                                                                                                                                                                                                                                             AAE33297 Length: 9
                                                                                                                                                                                                                                                                                                                                                                                 KGPGGPPPK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unidentified
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                                                                    diseases
                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAE32631;
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The present invention relates to a method of reducing the immunogenicity of a fusion protein. The method involves identifying a candidate T-cell epitope within a junction region spanning a fusion junction of a fusion protein and changing an amino acid within the junction region reduce the ability of the candidate T-cell epitope to interact with a T-cell receptor. The method is useful for reducing the immunogenicity of fusion proteins for use in therapy. The present sequence is T-cell mutant epitope. This sequence is used to illustrate the method of the invention.
                                                                                                                                                                                                                                                                                                                                                 Reducing the immunogenicity of a fusion protein by changing an amino acid within the junction region spanning a fusion junction of a fusion protein to reduce the ability of the candidate I-cell epitope to interact with a I-cell receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length: 9 December 11, 2003 07:10 Type: P Check: 3404
                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 54; 67pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE 1.0
AAE32919 standard; peptide; 9 AA.
                                                                                                                                                                                                                      29-MAR-2002; 2002WO-US09650.
                                                                                                                                                                                                                                                30-MAR-2001; 2001US-280625P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            T-cell; immunogenic; therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-MAR-2002; 2002WO-US09815.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-MAR-2001; 2001US-280625P.
                                                                                                                                                                                                                                                                        (LEXI-) LEXIGEN PHARM CORP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               I-cell epitope peptide
                                                                                                                                                                                                                                                                                                                          WPI; 2003-111794/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KSATATPGK
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                                                                                                                                                                                                                                                                                                Gillies SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAE32919;
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December 11, 2003 07:10 Type: P Check: 3482

AAE32631 Length: 9

KSLSLSPGK

WPI; 2003-103259/09.

Reducing the immunogenicity of a fusion protein comprises changing an amino acid within the junction region to reduce the ability of the candidate T-cell epitope identified within the junction spanning to interact with T-cell receptor.

Disclosure; Page 54; 68pp; English.

The invention relates to a method for reducing the immunogenicity of a fusion protein which involves identifying a candidate T-cell epitope within a junction spanning a fusion junction of a fusion protein, and changing an amino acid within the junction region to reduce the ability of the candidate T-cell epitope to interact with a T-cell receptor. The method is useful for reducing the immunogenicity of a fusion protein. It is useful for analysing, changing or modifying one or more amino acids in the junction region of a fusion protein to identify a T-cell epitope and reduce its ability to interact with a T-cell receptor. The less immunogenic fusion protein is are useful in providing therapeutic treatment. The present sequence is a T-cell epitope peptide used to illustrate the method of the invention.

Sequence 9 AA;

AAE32919 Length: 9 December 11, 2003 07:10 Type: P Check: 3482

KSLSLSPGK

!!AA_SEQUENCE 1.0 ID AAE32920 standard; peptide; 9 AA.

AAE32920;

24-MAR-2003 (first entry)

T-cell epitope mutant #1

T-cell; immunogenic; therapy; mutant; mutein.

WO200279232-A2

10-OCT-2002.

30-MAR-2002; 2002WO-US09815.

30-MAR-2001; 2001US-280625P.

(LEXI-) LEXIGEN PHARM CORP.

WPI; 2003-103259/09.

Reducing the immunogenicity of a fusion protein comprises changing an amino acid within the junction region to reduce the ability of the candidate T-cell epitope identified within the junction spanning to interact with T-cell receptor

Disclosure; Page 54; 68pp; English.

fusion protein which involves identifying a candidate protein which involves identifying a candidate T-cell epitope within a junction spanning a fusion junction of a fusion protein, and changing an amino acid within the junction region to reduce the ability of the candidate T-cell epitope to interact with a T-cell receptor. The method is useful for reducing the immunogenicity of a fusion protein. It is useful for analysing, changing or modifying one or more amino acids in the junction region of a fusion protein to identify a T-cell epitope and reduce its ability to interact with a T-cell receptor. The The invention relates to a method for reducing the immunogenicity of a

less immunogenic fusion proteins are useful in providing therapeutic treatment. The present sequence is a T-cell epitope mutant peptide used to illustrate the method of the invention. S S S S X S

Sequence

AAE32920 Length: 9 December 11, 2003 07:10 Type: P

1 KSATATPGK

seq28-agen.name

 $^{1 &}lt; (K, R, H) (G, A, V, L, F, P, M, S, T, Y, W, N, Q, C) \{7, 7\} (K, R, H) >$

GENESEQP1980S:AAP50468 CK: GENESEQP1980S:AAP91673 Ck: GENESEQP1990S:AAR12821 CK:				
	3472	len: 9	finds: 1	! Aap50468 Sequence of cyclopr
	3337	len: 9	finds: 1	! Aap91673 New bradykinin anal
	3337	len: 9	finds: 1	! Aar12821 Acylated bradykinin
GENESEQP1990S: AAR20132 ck:	3482	len: 9	finds: 1	! Aar20132 SEQ ID No. 8 encode
GENESEQP1990S:AAR24411 ck:	3472	len: 9	finds: 1	! Aar24411 CPase B-like enzyme
GENESEQP1990S:AAR28416 ck:	3654	len: 9	finds: 1	! Aar28416 Blood-brain barrier
GENESEQP1990S:AAR28419 ck:	3550	len: 9	finds: 1	! Aar28419 Blood-brain barrier
GENESEQP1990S:AAR36629 ck:	3216	len: 9	finds: 1	! Aar36629 Group I synthetic p
GENESEQP1990S:AAR36633 ck:	3212	len: 9	finds: 1	! Aar36633 Group I synthetic p
GENESEQP1990S: AAR36637 ck:	3208	len: 9	finds: 1	! Aar36637 Group I synthetic p
GENESEQP1990S;AAR41460 ck:	3546	len: 9	finds: 1	Aar41460 Antigenic peptide b
GENESEQP1990S:AAY38133 ck:	3378	len: 9	finds: 1	! Aay38133 Hepatitis B virus-d
GENESEQP1990S:AAY38136 ck:	3712	len: 9	finds: 1	! Aay38136 Hepatitis B virus-d
GENESEQP1990S:AAY38138 ck:	3698	len: 9	finds: 1	! Aay38138 Hepatitis B virus-d
GENESEQP1990S:AAY38278 ck:	3252	len: 9	finds: 1	Aay38278 HPV-derived HLA-bin
GENESEQP1990S:AAR47322 ck:	3252	len: 9	finds: 1	! Aar47322 HLA-A11 HPV18.E7 an
GENESEQP1990S:AAR55743 ck:	3402	len: 9	finds: 1	! Aar55743 Protein-kinase inhi
GENESEQP1990S:AAR87095 ck:	3472	len: 9	finds: 1	! Aar87095 Bradykinin, forms p
GENESEQP1990S:AAW45443 ck:	3330	len: 9	finds: 1	! Aaw45443 Bradykinin analogue
GENESEQP1990S:AAW45444 ck:	3410	len: 9	finds: 1	! Aaw45444 Bradykinin analogue
GENESEQP1990S:AAW45445 ck:	3338	len: 9	finds: 1	l Aaw45445 Bradykinin analogue
GENESEQP1990S:AAW45446 ck:	3337	len: 9	finds: 1	l Aaw45446 Bradykinin analogue
GENESEQP1990S:AAW45447 ck:	3409	len: 9	finds: 1	! Aaw45447 Bradykinin analogue
GENESEQP1990S:AAW45438 ck:	3400	len: 9	finds: 1	! Aaw45438 Bradykinin analogue
GENESEQP1990S:AAW45439 Ck:	3480	len: 9	finds: 1	! Aaw45439 Bradykinin analogue
GENESEQP1990S:AAW45440 ck:	3408	len: 9	finds: 1	! Aaw45440 Bradykinin analogue
GENESEQP1990S:AAW00686 ck:	3657	len: 9	finds: 1	! Aaw00686 Peptide comprising
GENESEQP1990S:AAR88475 CK:	3704	len: 9	finds: 1	! Aar88475 Internal tryptic pe
GENESEQP1990S:AAY22658 ck:	3522	len: 9	finds: 1	! Aay22658 Peptide used to cre
GENESEQP1990S:AAY22679 ck:	3472	len: 9	finds: 1	1 Aay22679 Peptide used to cre
GENESEQP1990S:AAW79626 ck:	3435	len: 9	finds: 1	! Aaw79626 Truncated GHRH anal
GENESEQP1990S:AAW54325 ck:	3472	len: 9	finds: 1	! Aaw54325 Bradykinin. 7/1998
GENESEQP1990S:AAW39724 ck:	3657	len: 9	finds: 1	! Aaw39724 Human carcina-embry

GENESEQP19908:AAW45657	çk:	3378	len:	6	finds:	ref	! Aaw45657	HBV ade X 1548 pept
GENESEQP1990S:AAW23801	ck:	3548	len:	6	finds:	н	! Aaw23801	VEGF/VPF antigen se
GENESEQP1990S:AAW04607	çk:	3472	len:	o.	finds:	н	! Aaw04607	Bradykinin fragment
GENESEQP1990S:AAW77426	중:	3472	len:	6	finds:	H	! Aaw77426	Bradykinin sequence
GENESEQP1990S;AAW81261	ςķ:	3541	len:	σ	finds:	-	! Aaw81261	Human iNOS peptide
GENESEQP1990S:AAW81318	ck:	3541	len:	9	finds:	H	! Aaw81318	Human iNOS peptide
GENESEQP1990S:AAW87445	ck:	3476	len:	σ	finds:		: Aaw87445	Peptide determined
GENESEQP1990S:AAW87446	;	3498	len:	σ	finds:		! Aaw87446	Peptide determined
GENESEQP1990S:AAW87447	상:	3495	len:	σ'n	finds:		! Aaw87447	Peptide determined
GENESEQP1990S:AAW87448	ck:	3448	len:	σ	finds:	н	! Aaw87448	Peptide determined
GENESEQP1990S:AAW87449	çk:	3495	len:	σ	finds:	1	! Aaw87449	Peptide determined
GENESEQP1990S:AAW87450	с <u>к</u> ::	3452	len:	σı	finds:	н	! Aaw87450	Peptide determined
GENESEQP1990S:AAW87451	ck:	3493	len:	σ	finds:	н	! Aaw87451	Peptide determined
GENESEQP1990S:AAW87452	ck:	3511	len:	σı	finds:	н	! Aaw87452	Peptide determined
GENESEQP1990S: AAW87453	çk:	3475	len:	o,	finds:		! Aaw87453	Peptide determined
GENESEQP1990S:AAW87454	;;	3472	len:	σı	finds:	н	! Aaw87454	Peptide determined
GENESEQP1990S:AAW87376	옧	3472	len:	თ	finds:	н	! Aaw87376	Peptide Z determin
GENESEQP19908:AAW72520	쏬:	3551	len:	Φ	finds:	ᆏ	! Aaw72520	Dengue virus type-
GENESEQP1990S:AAW80241	ck:	3476	len:	σħ	finds:	-	! Aaw80241	Wild type active s
GENESEQP1990S; AAW80245	çk:	3432	len:	Ø	finds:	ᆏ.	! Aaw80245	Active site sequen
GENESEQP1990S;AAW74626	çk:	3548	len:	ø,	finds:	н	! Aaw74626	Amino acid sequenc
GENESEQP1990S:AAW79806	옩:	3472	len:	σı	finds:	П	1 Aaw79806	Bradykinin peptide
GENESEQP1990S:AAW42433	çk:	3548	len:	σι	finds:	н	1 Aaw42433	Human vascular per
GENESEQP1990S:AAW53382	с <u>қ</u>	3548	len:	σı	finds:	п	! Aaw53382	Tumour metastasis
GENESEQP1990S:AAY50235	g ::	3472	len:	σι	finds:	ч	! Aay50235	Neutrophil-activat
GENESEQP1990S:AAY45701	상 :	3378	len:	σ	finds:	-	! Aay45701	Immunogenic peptid
GENESEQP1990S:AAY45704	с <u>к</u>	3672	len:	σı	finds:	п	! Aay45704	Immunogenic peptid
GENESEQP1990S:AAY45706	ç	3696	len:	σι	finds:	п	! Aay45706	Immunogenic peptic
GENESEQP1990S:AAY45852	;	3252	len:	σ	finds:	H	Aay45852	Immunogenic peptic
GENESEQP1990S:AAY46647	유:	3047	len:	σ	finds:	н	l Aay46647	Immunogenic peptic
GENESEQP1990S:AAY46725	çk ::	3657	len:	o,	finds:	H	! Aay46725	Immunogenic peptic
GENESEQP1990S:AAY46730	ck:	3523	len:	6	finds:]	н	! Aay46730	Immunogenic peptic
GENESEQP1990S:AAY46731	çk ::	3523	len:	6	finds: 1		! Aay46731	Immunogenic peptic
GENESEQP1990S:AAY46771	유:	3353	len:	6	finds: 1	н	! Aay46771	Immunogenic peptic
GENESEQP1990S:AAY46831	얁:	3610	len:	6	finds: 1	r-i	! Aay46831	Immunogenic peptic
GENESEQP1990S:AAY46925	중	3406	len:	6	finds: 3	rel .	! Aay46925	Immunogenic peptic

Page 2

GENESEQP1990S:AAY46926	ck: 3469	len: 9	finds: 1	! Aay46926 Immunogenic peptide
GENESEQP1990S:AAY30986	ck: 3472	len: 9	finds: 1	! Aay30986 Non-crosslinked pro
GENESEQP1990S:AAY06938	ck: 3472	len: 9	finds: 1	Aay06938 Bradykinin peptide
GENESEQP1990S:AAW97381	ck: 3548	len: 9	finds: 1	! Aaw97381 A VEGF/VPF antagoni
GENESEQP1990S:AAW67793	ck: 3465	len: 9	finds: 1	! Aaw67793 [Lys(1)]-bradykinin
GENESEQP1990S:AAW67787	ck: 3472	len: 9	finds: 1	! Aaw67787 Bradykinin substrat
GENESEQP2000S:AAB18478	ck: 3472	len: 9	finds: 1	! Aab18478 Peptide substrate u
GENESEQP2000S:AAB18482	ck: 3472	len: 9	finds: 1	! Aab18482 Peptide substrate u
GENESEQP2000S:AAB23542	ck: 3472	len: 9	finds: 1	! Aab23542 Arginine bradykinin
GENESEQP2000S:AAY97911	ck: 3402	len: 9	finds: 1	! Aay97911 Bradykinin 2 recept
GENESEQP2000S:AAY97926	ck: 3402	len: 9	finds: 1	! Aay97926 Bradykinin 2 recept
GENESEQP2000S:AAY97941	ck: 3402	len: 9	finds: 1	! Aay97941 Bradykinin 2 recept
GENESEQP2000S:AAY77218	ck: 3472	len: 9	finds: 1	! Aay77218 Bradykinin. 5/2000
GENESEQP2000S:AAY77223	ck: 3402	len: 9	finds: 1	! Aay77223 [D-Phe7]-bradykinir
GENESEQP2000S:AAY57612	ck: 3548	len: 9	finds: 1	! Aay57612 Human VEGF/VPF pept
GENESEQP2000S:AAY58054	ck: 3548	len: 9	finds: 1	! Aay58054 Vascular endothelia
GENESEQP2000S:AAY59374	ck: 3557	len: 9	finds: 1	l Aay59374 Bradykinin peptide
GENESEQP2000S: AAY73032	ck: 3378	len: 9	finds: 1	! Aay73032 Hepatitis B virus (
GENESEQP2002S:ABJ15169	ck: 3503	len: 9	finds: 1	: Abj15169 Immunogenic HIV per
GENESEQP2002S:AAE26923	ck: 3345	len: 9	finds: 1	! Aae26923 Decoy peptide, HDP8
GENESEQP2002S:ABG79074	ck: 3657	len: 9	finds: 1	! Abg79074 Human CEA class I H
GENESEQP20028;ABJ06426	ck: 3378	len: 9	finds: 1	! Abj06426 Hepatitis B virus e
GENESEQP2002S:ABJ08044	ck: 3378	len: 9	finds: 1	! Abj08044 Hepatitis B virus e
GENESEQP2002S:ABJ08439	ck: 3378	len: 9	finds: 1	! Abj08439 Hepatitis B virus e
GENESEQP2002S:ABJ09442	ck: 3406	len: 9	finds: 1	! Abj09442 Hepatitis B virus a
GENESEQP20028:ABJ09443	ck: 3469	len: 9	finds: 1	! Abj09443 Hepatitis B virus a
GENESEQP20028:ABJ09770	ck: 3378	len: 9	finds: 1	! Abj09770 Hepatitis B virus e
GENESEQP20028:AAE25674	ck: 3472	len: 9	finds: 1	! Aae25674 Bradykinin, a hormo
GENESEQP20028:AAO15553	ck: 3472	len: 9	finds: 1	! Aao15553 Human Bradykinin pe
GENESEQP2002S:AAO18872	ck: 3657	len: 9	finds: 1	! Aao18872 Human CEA27 T cell
GENESEQP2002S:ABB78180	ck: 3472	len: 9	finds: 1	! Abb78180 Amino acid sequence
GENESEQP2002S.ABB78186	ck: 3465	len: 9	finds: 1	1 Abb78186 Amino acid sequence
GENESEQP2002S:ABG69693	ck: 3566	1en: 9	finds: 1	! Abg69693 Polypeptide identif
GENESEQP20028:ABP61650	ck: 3380	len: 9	finds: 1	! Abp61650 Human KRPI tryptic
GENESEQP20028:AAU99710	ck: 3472	len: 9	finds: 1	! Aau99710 Human Bradykinin pe
GENESEQP20028:AAE23396	ck: 3526	len: 9	finds: 1	! Aae23396 Lysine oxidase pept
GENESEQP2002S:AAU79295	ck: 3472	len: 9	finds: 1	! Aau79295 Maitake acid protea

GENESEQP20028:ABG60849	ck: 3305	len: 9	finds: 1	! Abg60849 Hyalauronan (HA) b:
GENESEQP20028:ABG60856	ck: 3589	len: 9	finds: 1	! Abg60856 Cellular response !
GENESEQP2002S:AAU96014	ck: 3657	len: 9	finds: 1	! Aau96014 Carcino embryonic a
GENESEQP20028:ABB08936	ck: 3472	len: 9	finds: 1	! Abb08936 Bradykinin peptide
GENESEQP2002S:AAE18740	ck: 3295	len: 9	finds: 1	! Aae18740 Human leucocyte ant
GENESEQP20028:AAU12061	ck: 3458	len: 9	finds: 1	! Aau12061 Alcohol dehydrogen?
GENESEQP2001S:ABP14476	ck: 3423	len: 9	finds: 1	! Abp14476 HIV A03 super moti:
GENESEQP2001S:ABP20226	ck: 3485	len: 9	finds: 1	! Abp20226 HIV A03 motif env }
GENESEQP2001S:ABP20722	ck: 3423	len: 9	finds: 1	! Abp20722 HIV A03 motif gag !
GENESEQP2001S:ABP22869	ck: 3423	len: 9	finds: 1	! Abp22869 HIV All motif gag !
GENESEQP20018:AAM49755	ck: 3472	len: 9	finds: 1	! Aam49755 Bradykinin peptide
GENESEQP20018:AAU24158	ck: 3510	len: 9	finds: 1	! Aau24158 Human MHC molecule
GENESEQP2001S:AAU26809	ck: 3460	len: 9	finds: 1	! Aau26809 Human Leukocyte An!
GENESEQP20018:AAU27119	ck: 3460	len: 9	finds: 1	! Aau27119 Human Leukocyte An!
GENESEQP2001S:AAB85641	ck: 3379	len: 9	finds: 1	! Aab85641 Synthetic peptide :
GENESEQP2001S:AAG66801	ck: 3472	len: 9	finds: 1	! Aag66801 Bradykinin vasodil
GENESEQP20018:AAG64745	ck: 3472	len: 9	finds: 1	! Aag64745 Bradykinin peptide
GENESEQP2001S:AAE04938	ck: 3472	len: 9	finds: 1	! Aae04938 Nuclear Dbf2-relate
GENESEQP2001S:AAE05217	ck: 3279	len: 9	finds: 1	! Aae05217 Human HLA-A3 bindi:
GENESEQP2001S:AAB97901	ck: 3548	len: 9	finds: 1	! Aab97901 Human VEGF/VPF pep!
GENESEQP2001S:AAB96035	ck: 3252	len: 9	finds: 1	! Aab96035 HPV 18 E7 A3 MHC-b:
GENESEQP20018:AAJ02237	ck: 3356	len: 9	finds: 1	! Aaj02237 Hepatitís C virus (
GENESEQP2001S:AAJ02240	ck: 3628	len: 9	finds: 1	! Aaj02240 Hepatitis C virus .
GENESEQP2001S:AAJ02718	ck: 3356	len: 9	finds: 1	! Aaj02718 Hepatitis C virus
GENESEQP2001S:AAJ02721	ck: 3628	len: 9	finds: 1	! Aaj02721 Hepatitis C virus
GENESEQP2001S:AAB74574	ck: 3548	len: 9	finds: 1	! Aab74574 VEGF VPF antagonis!
GENESEQP2001S:AAB89339	ck: 3404	len: 9	finds: 1	! Aab89339 HIV gp120 protein l
GENESEQP2001S;AAB73103	ck: 3472	len: 9	finās: 1	! Aab73103 Bradykinin. 5/2001
GENESEQP2001S:AAB35578	ck: 3472	len: 9	finds: 1	! Aab35578 Protein separation
GENESEQP2001S:AAB35579	ck: 3472	len: 9	finds: 1	! Aab35579 Protein separation
GENESEQP2001S:AAM24739	ck: 3626	len: 9	finds: 1	! Aam24739 Human MHC class I !
GENESEQP2001S:AAM24830	ck: 3626	len: 9	finds: 1	! Aam24830 Human MHC molecule
GENESEQP20018:AAM24845	ck: 3562	len: 9	finds: 1	! Aam24845 Human MHC molecule
GENESEQP20018:AAM24853	ck: 3385	len: 9	finds: 1	! Aam24853 Human MHC molecule
GENESEQP2003S:ABJ38048	ck: 3267	len: 9	finds: 1	1 Abj38048 Human cytomegalovi:
GENESEQP2003S:ABJ38078	ck: 3452	len: 9	finds: 1	! Abj38078 Human cytomegalovi:

3352 len: 9 finds: 1 ! Abr01872 Human cancer-relate	3352 len: 9 finds: 1 ! Abr02273 Human	3352 len: 9 finds: 1 ! Abr02466 Human cancer-relat.	3352 len: 9 finds: 1 ! Abr02921 Human cancer-relat	3620 len: 9 finds: 1 ! Abr06110 Human cancer-relat	3620 len: 9 finds: 1 ! Abr06505 Human cancer-relat	3620 len: 9 finds: 1 ! Abr06672 Human cancer-relat	3460 len: 9 finds: 1 ! Abr11795 Human cancer-relat	3460 len: 9 finds: 1 ! Abr12183 Human cancer-relat	3460 len: 9 finds: 1 ! Abr12373 Human cancer-relat	3460 len: 9 finds: 1 ! Abr12839 Human cancer-relat	3625 len: 9 finds: 1 ! Abr14581 Human cancer-relat	: 3625 len: 9 finds: 1 ! Abr14859 Human cancer-relat	3625 len: 9 finds: 1 ! Abr14969 Human cancer-relat	3625 len: 9 finds: 1 ! Abr15167 Human cancer-relat	3625 len: 9 finds: 1 ! Abr15461 Human cancer-relate	362's len: 9 finds: 1 ! Abr15655 Human cancer-relate	3742 len: 9 finds: 1 ! Abr17368 Human cancer-relat	3587 len: 9 finds: 1 ! Abr17385 Human cancer-relat	3587 len: 9 finds: 1 ! Abr17774 Human cancer-relat	3742 len: 9 finds: 1 ! Abr17807 Human cancer-relate	3587 len: 9 finds: 1 ! Abr17968 Human cancer-relat	3742 len: 9 finds: 1 ! Abr17996 Human cancer-relate	3645 len: 9 finds: 1 ! Abr19457 Human cancer-relate	3414 len: 9 finds: 1 ! Abr20177 Human cancer-relate	3604 len: 9 finds: 1 '! Abr20256 Human cancer-relat	3376 len: 9 finds: 1 ! Abr20265 Human cancer-relate	3376 len: 9 finds: 1 ! Abr20570 Human cancer-relate	3414 len: 9 finds: 1 ! Abr20596 Human cancer-relate	3376 len: 9 finds: 1 Abr20769 Human cancer-relate	3414 len: 9 finds: 1 ! Abr20770 Human cancer-relate	3604 len: 9 finds: 1 ! Abr20813 Human cancer-relat	3604 len: 9 finds: 1 ! Abr21641 Human cancer-relat	3376 len: 9 finds: 1 ! Abr21652 Human cancer-relat	3376 len: 9 finds: 1 ! Abr21970 Human cancer-relate	
GENESEOP2003S;ABR01872 ck;		GENESEQP20038:ABR02466 ck:	GENESEQP20038:ABR02921 ck:	GENESEQP20038:ABR06110 ck:	GENESEQP2003S:ABR06505 CK:	GENESEQP2003S:ABR06672 ck:	GENESEQP2003S:ABR11795 ck:	GENESEQP2003S:ABR12183 ck:	GENESEQP2003S:ABR12373 ck	GENESEQP2003S:ABR12839 ck	GENESEQP2003S:ABR14581 ck:	GENESEQP2003S:ABR14859 ck	GENESEQP2003S:ABR14969 ck:	GENESEQP2003S:ABR15167 ck:	GENESEQP20038:ABR15461 ck:	GENESEQP2003S:ABR15655 ck:	GENESEQP2003S:ABR17368 ck:	GENESEQP2003S:ABR17385 ck:	GENESEQP2003S:ABR17774 ck:	GENESEQP2003S:ABR17807 ck:	GENESEQP20038:ABR17968 ck:	GENESEQP2003S:ABR17996 ck:	GENESEQP2003S:ABR19457 ck:	GENESEQP2003S:ABR20177 ck:	GENESEQP2003S:ABR20256 ck:	GENESEQP2003S:ABR20265 ck:	GENESEQP20038:ABR20570 ck:	GENESEQP2003S:ABR20596 ck	GENESEQP2003S:ABR20769 ck:	GENESEQP2003S:ABR20770 ck:	GENESEQP2003S:ABR20813 ck:	GENESEQP20038:ABR21641 ck:	GENESEQP2003S:ABR21652 ck:	GENESEQP2003S:ABR21970 ck:	The opterior of the opterior

GENESEQP2003S:ABR22978	ck: 3414	len: 9	finds: 1	! Abr22978 Human cancer-relate
GENESEQP20038:ABR23058	ck: 3376	len: 9	finds: 1	! Abr23058 Human cancer-relate
GENESEQP2003S:ABR23059	ck: 3604	len: 9	finds: 1	! Abr23059 Human cancer-relate
GENESEQP2003S:ABR23369	ck: 3538	len: 9	finds: 1	! Abr23369 Human cancer-relate
GENESEQP20038:ABR23370	ck: 3376	len: 9	finds: 1	! Abr23370 Human cancer-relate
GENESEQP20038:ABR23397	ck: 3414	len: 9	finds: 1	! Abr23397 Human cancer-relate
GENESEQP20038:ABR23569	ck: 3376	len: 9	finds: 1	! Abr23569 Human cancer-relate
GENESEQP20038:ABR23570	ck: 3414	len: 9	finds: 1	! Abr23570 Human cancer-relate
GENESEQP20038:ABR23574	ck: 3538	len: 9	finds: 1	! Abr23574 Human cancer-relat
GENESEQP2003S:ABR23614	ck: 3604	len: 9	finds: 1	! Abr23614 Human cancer-relat
GENESEQP2003S:ABR24428	ck: 3508	len: 9	finds: 1	! Abr24428 Human cancer-relat
GENESEQP2003S:ABR24828	ck: 3508	len: 9	finds: 1	! Abr24828 Human cancer-relat
GENESEQP20038:ABR25013	ck: 3508	len: 9	finds: 1	! Abr25013 Human cancer-relat
GENESEQP20038:ABR27626	ck: 3469	len: 9	finds: 1	! Abr27626 Human cancer-relat
GENESEQP2003S:ABR27791	ck: 3469	len: 9	finds: I	! Abr27791 Human cancer-relat
GENESEQP2003S:ABG76066	ck: 3472	len: 9	finds: 1	! Abg76066 Human regulatory p
GENESEQP20038:ABP58250	ck: 3451	len: 9	finds: 1	! Abp58250 Human pre-gastroki
GENESEQP2003S:AAE33297	ck: 3451	len: 9	finds: 1	! Aae33297 Human pre-AMP-18 p
GENESEQP20038:AAE32631	ck: 3482	len: 9	finds: 1	! Aae32631 T-cell epitope pep
GENESEQP20038:AAE32632	ck: 3404	len: 9	finds: 1	! Aae32632 T-cell epitope mut
GENESEQP20038:AAE32919	ck: 3482	len: 9	finds: 1	! Aae32919 T-cell epitope per
GENESEQP20038:AAE32920	ck: 3404	len: 9	finds: 1	! Aae32920 T-cell epitope mut
\\End of list	•			

Databases searched: Geneseq.AA, Release 13.0, Released on 19Jun2003, Formatted on 15Jul2003

Total finds: 202 Total length: 158,726,570 Total sequences: 1,107,863 CPU time: 05:20.26